

VCR6000/6100 VIDEO CASSETTE RECORDER SERVICE MANUAL

4-2 CLEANING

1. CLEANING OF VIDEO HEAD

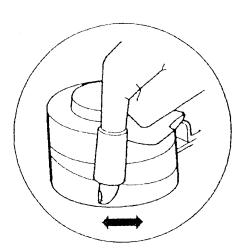
Head cleaning by using a chamois skin.

-- Procedure ---

- (1) Remove the top cabinet.
- (2) Put on a glove(thin type) to avoid touching the upper drum and lower drum with bare hand.
- (3) Put a few drops of alcohol on the Chamois skin, and by slightly placing it against the head tip, allow the upper drum to turn the right and left.

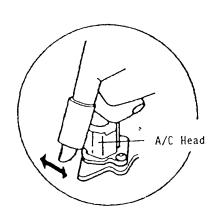
-- Remark --

- (1) The video head is of very hard material, but since it is very thin, avoid cleaning it vertically.
- (2) Wait for the cleaned part to dry out, before operating the unit.
- (3) Do not reuse the stained chamois skin.



2. CLEANING OF AUDIO CONTROL HEAD

Head cleaning by using a chamois skin.



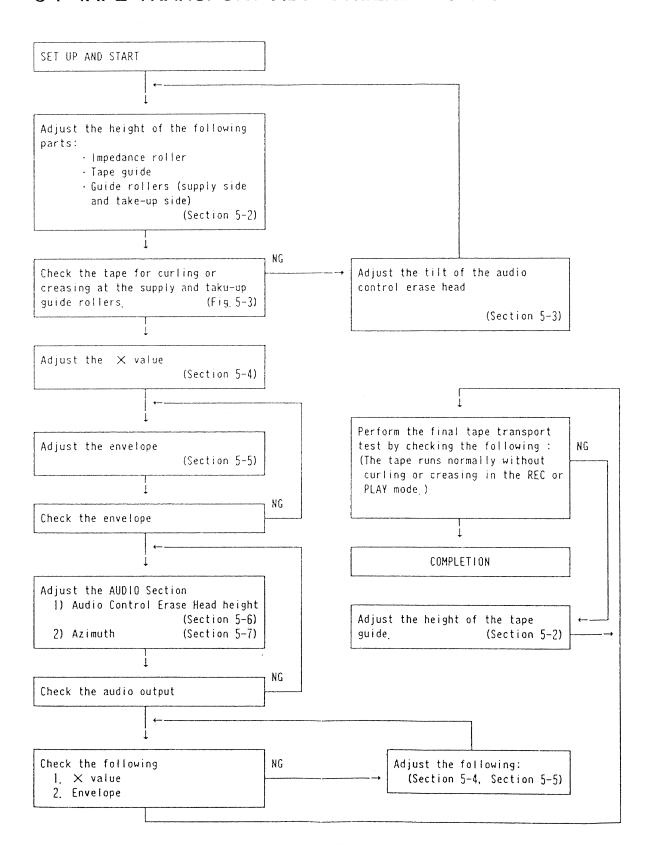
--- Procedure ---

- (1) Remove the Top Cabinet.
- (2) Put a few drops of alcohol on the chamois skin, Clean up the audio control head, being careful not to damage the upper drum and other tape running parts.

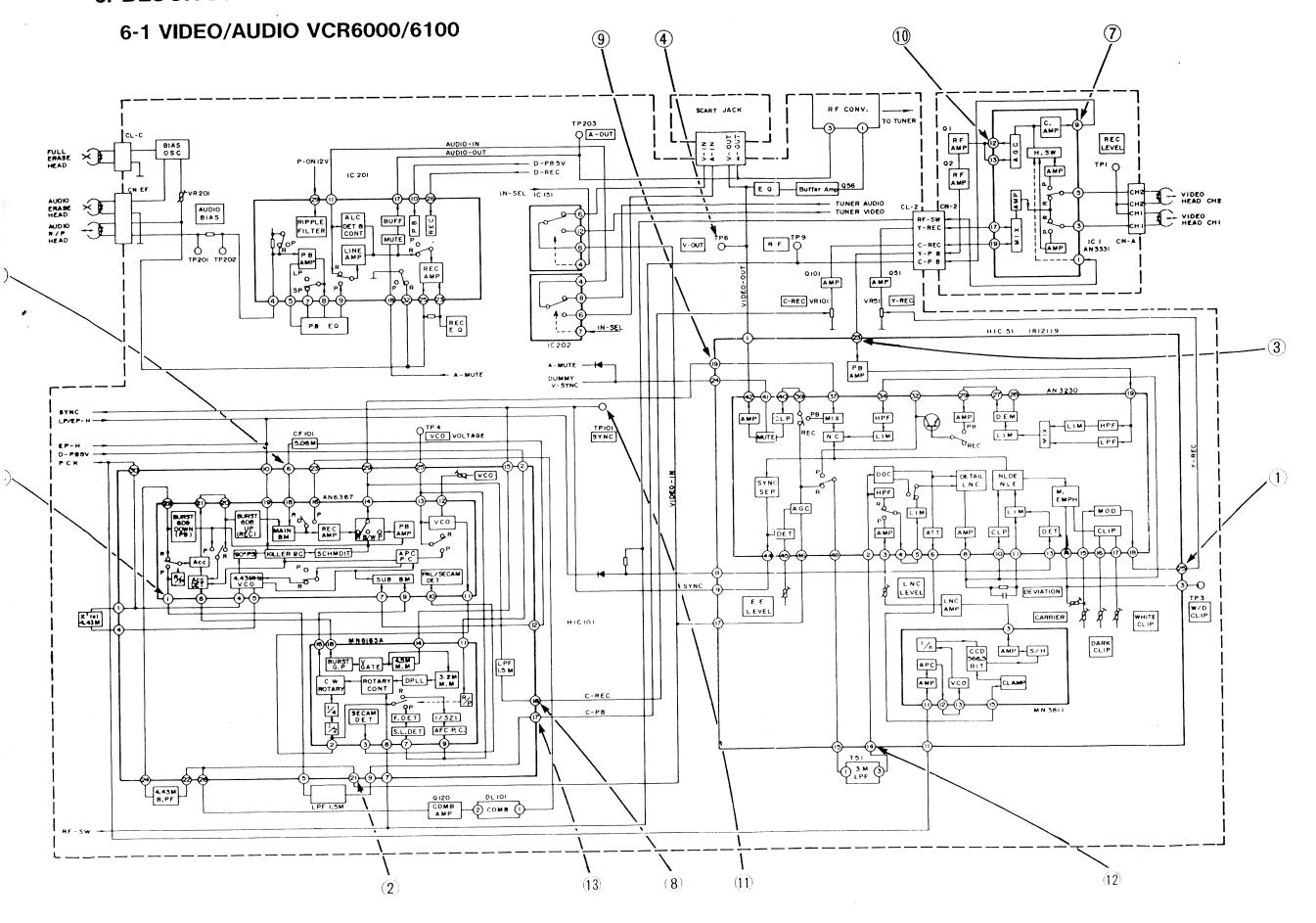
-- Remark ---

- (1) Avoid cleaning audio control head vertically.
- (2) Wait for the cleaned part to dry well, before operating the unit.

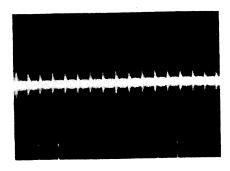
5. MECHANICAL ADJUSTMENT VCR6000 5-1 TAPE TRANSPORT ADJUSTMENT FLOW CHART



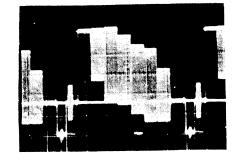
6. BLOCK DIAGRAM



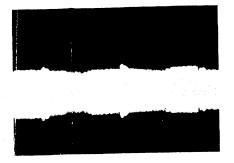
WAVE FORMS VCR6000/6100



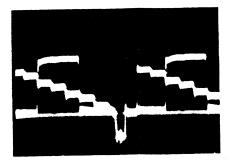
5mV/div (1) 0.1mS/div Mode : REC Test Tape : Blank Tape HIC51 Pin 25



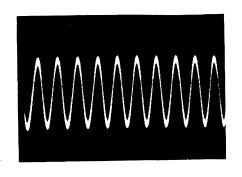
20mV/div (2) 10mS/div Mode : REC Test Tape : Blank Tape TP-21



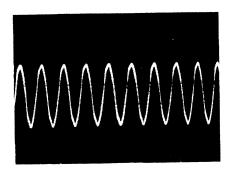
20mV/div (**3**) 5mS/div Mode : PLAY Test Tape : F6-A HIC51 Pin 23



20mV/div (4) 10mS/div Mode : PLAY Test Tape : F6-A TP-6



(**5**) 0.2uS/div 5mV/div Mode : PLAY Test Tape : F6-A HIC101 Pin 6



20mV/div (6) 0.2uS/div Mode : PLAY Test Tape : F6-4 HIC101 Pin 1



7 2mS/div 10mV/div Mode : PLAY Test Tape : F6-A ICl Pin 9



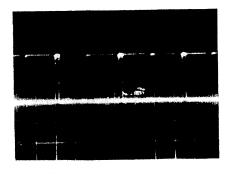
10mV/div (8) 20uS/div Mode : REC Test Tape : Blank Tape HIC101 Pin 18



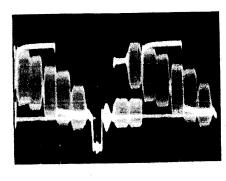
20mV/div (9) 10uS/div Mode : PLAY Test Tape : F6-A HIC51 Pin 19



10mV/div (10) 2mS/div Mode : PLAY Test Tape : F6-A ICl Pin 12



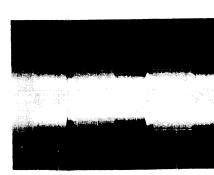
(11) 20uS/div 0.2V/div Mode : PLAY Test Tape : F6-A TP101



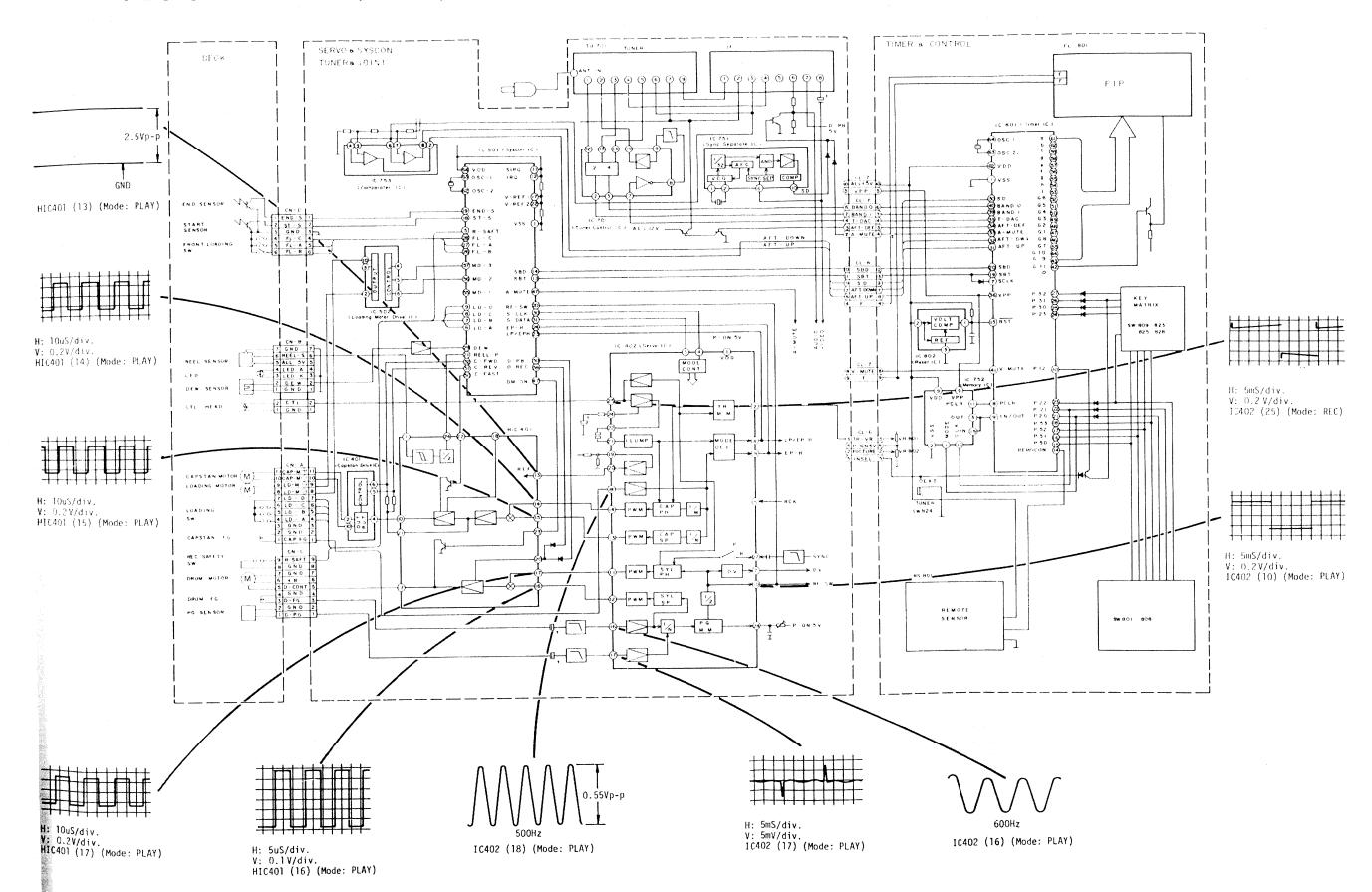
(12) 10uS/div 10mV/div Mode : PLAY Test Tape : F6-A HIC51 Pin 14



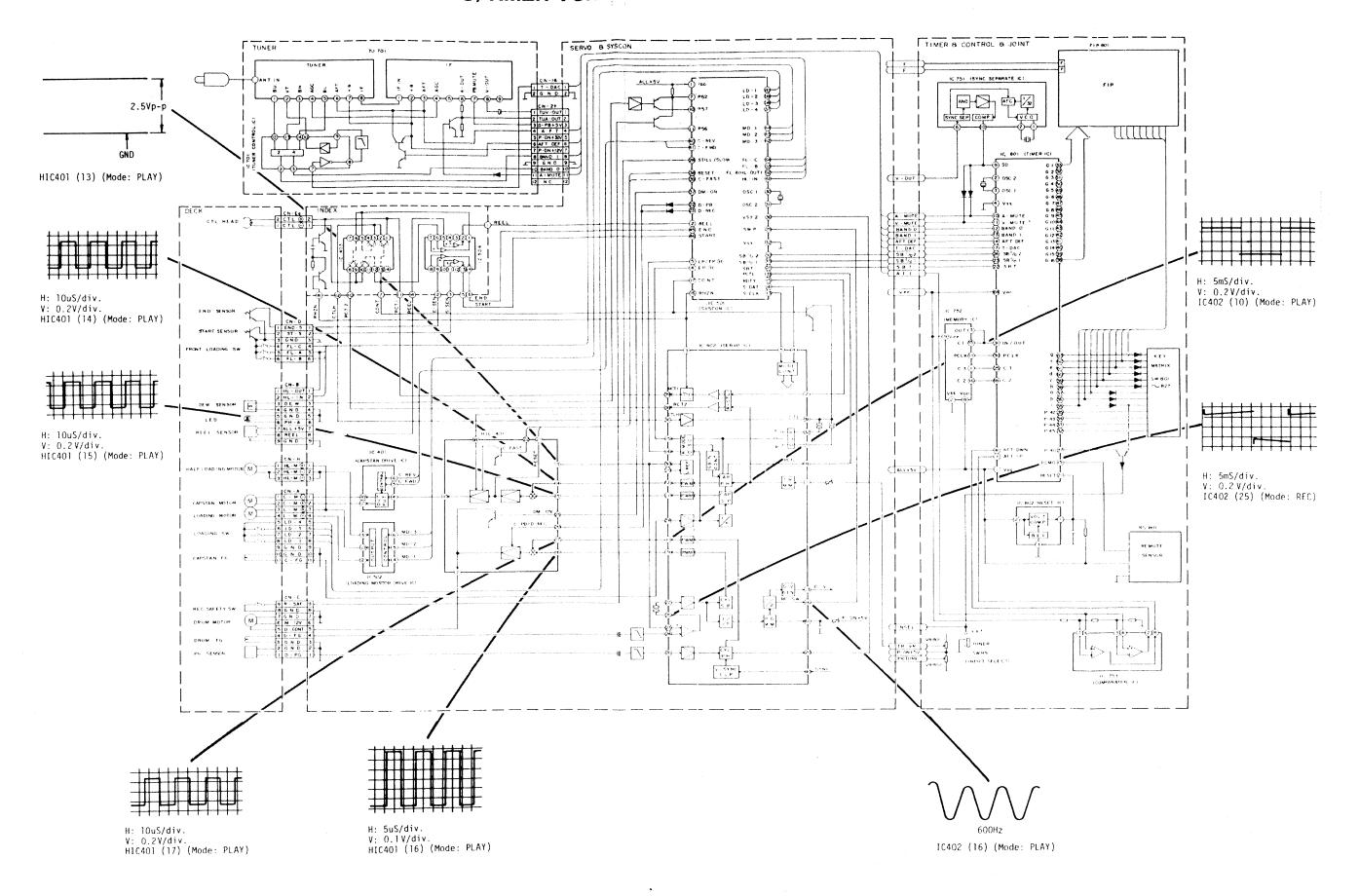
(13) 5mS/div 10mV/div Mode : PLAY Test Tape : F6-A HIC101 Pin 17

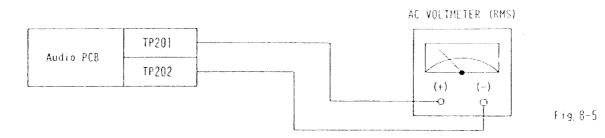


6-2 SYSTEM CONTROL/SERVO/TIMER VCR6000

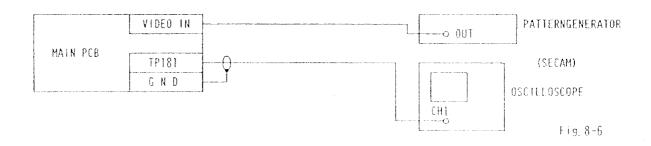


6-2 SYSTEM CONTROL/SERVO/TIMER VCR6100





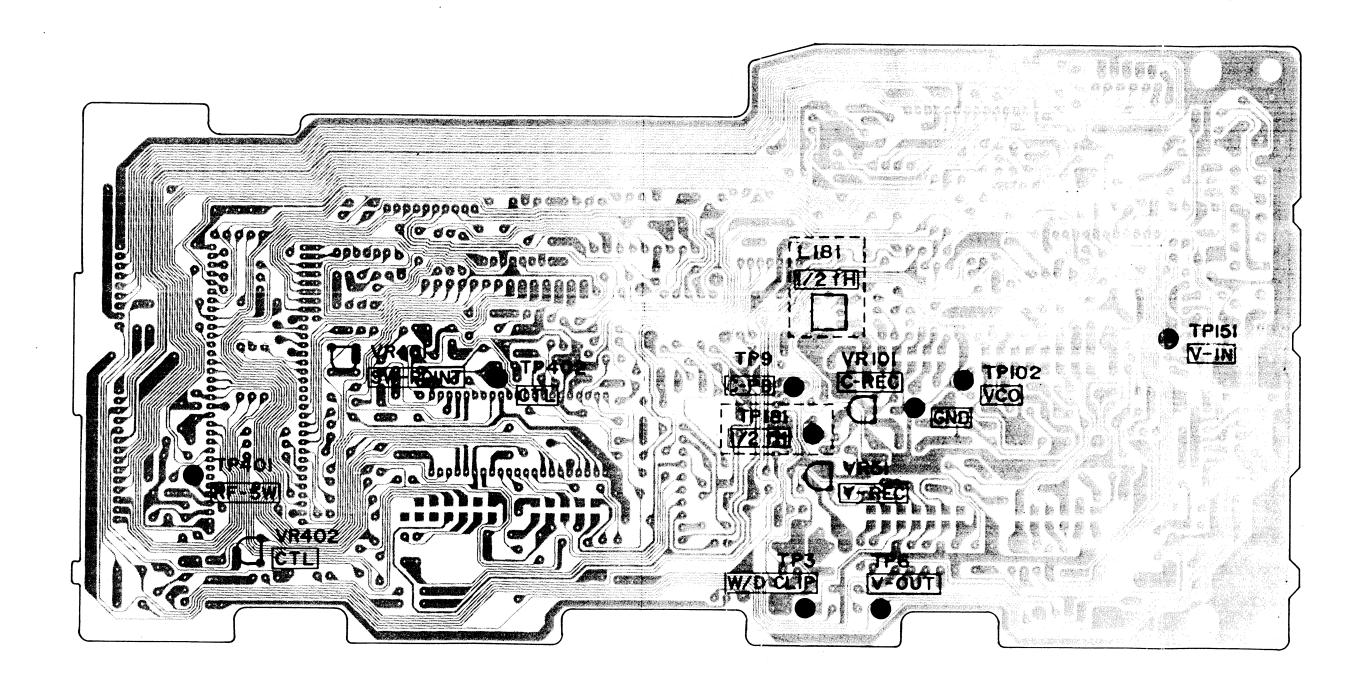
No.	ltem	Test Point	Adjustment point	Method	Connection Figure
8-5	REC. Bias Current	TP201 TP202	VR201	 Set the REC status by the blank tape. (Do not set the PAUSE. In PAUSE mode, the blas oscillation is stopped.) Connect the AC voltmeter to TP201 and TP202. Adjust by VR201 so that the voltage becomes 22 mV. 	Fig.8-5



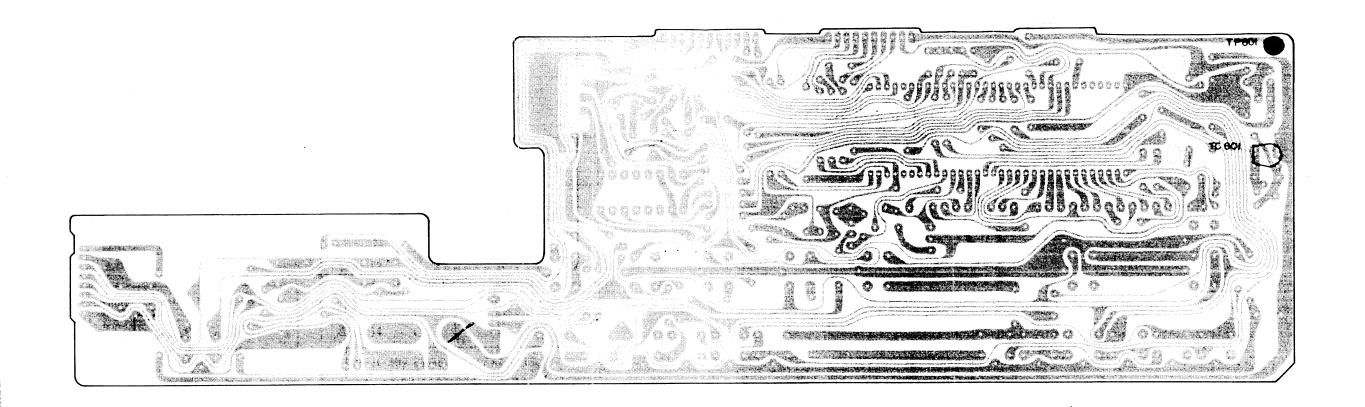
* Note: Require this adjustment for ME-SECAM model only.

9. TEST POINT

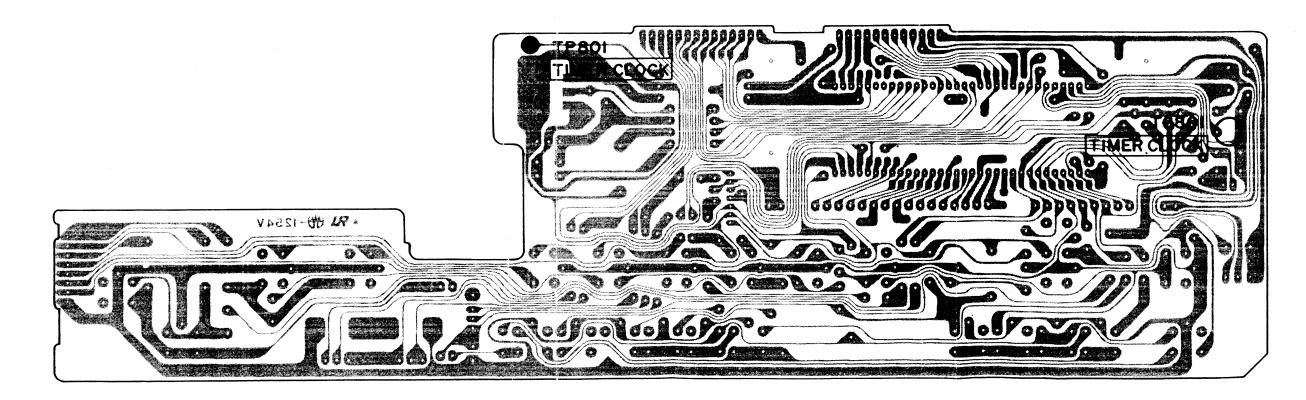
9-1 MAIN P.C.BOARD VCR6100



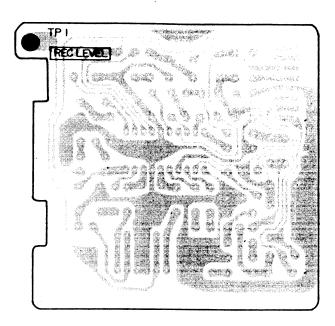
9-2 TIMER P.C.BOARD VCR6000



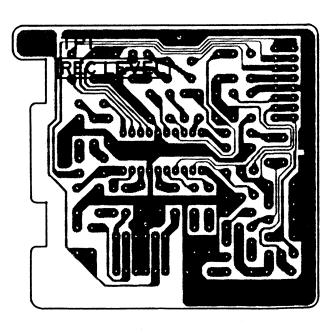
9-2 TIMER P.C.BOARD VCR6100



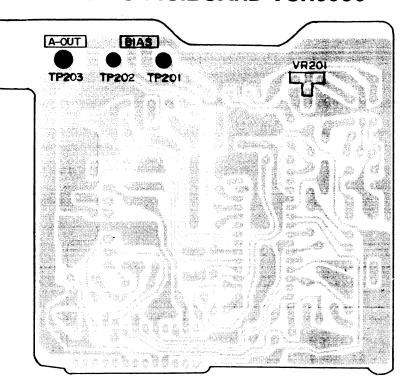
9-3 HEAD AMP P.C.BOARD VCR6000



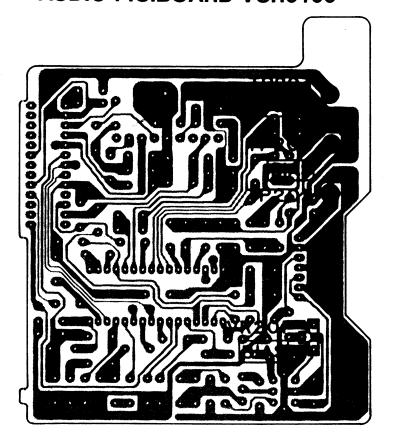
9-3 HEAD AMP P.C.BOARD VCR6100



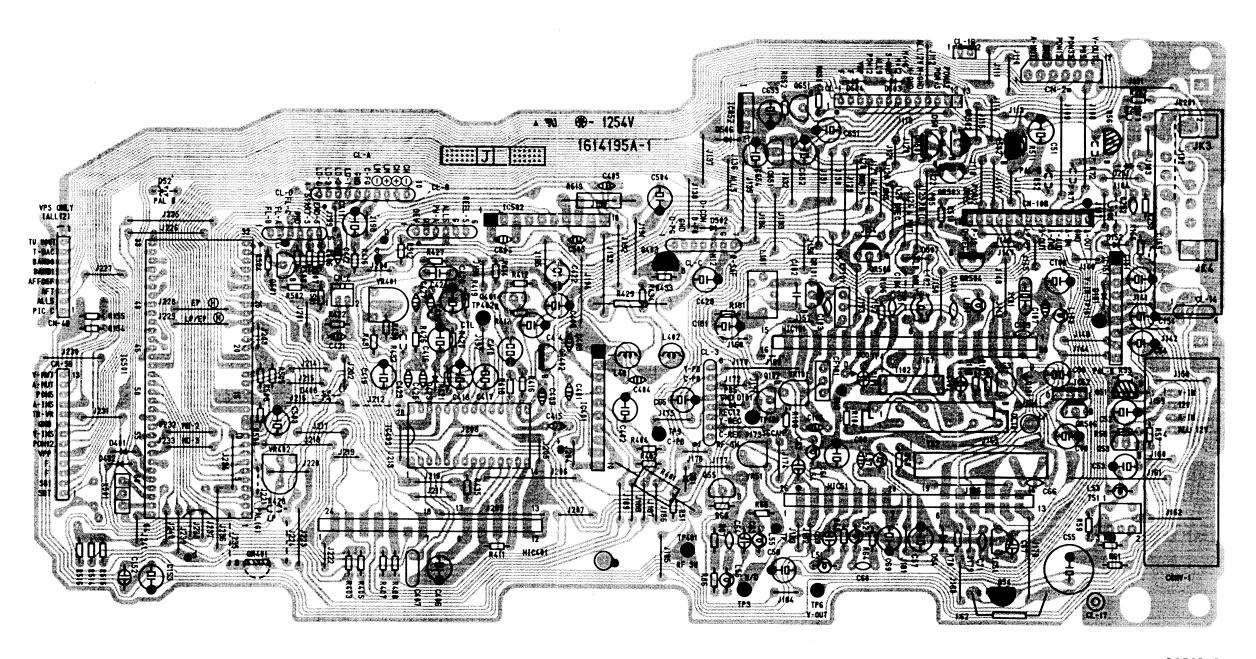
9-4 AUDIO P.C.BOARD VCR6000



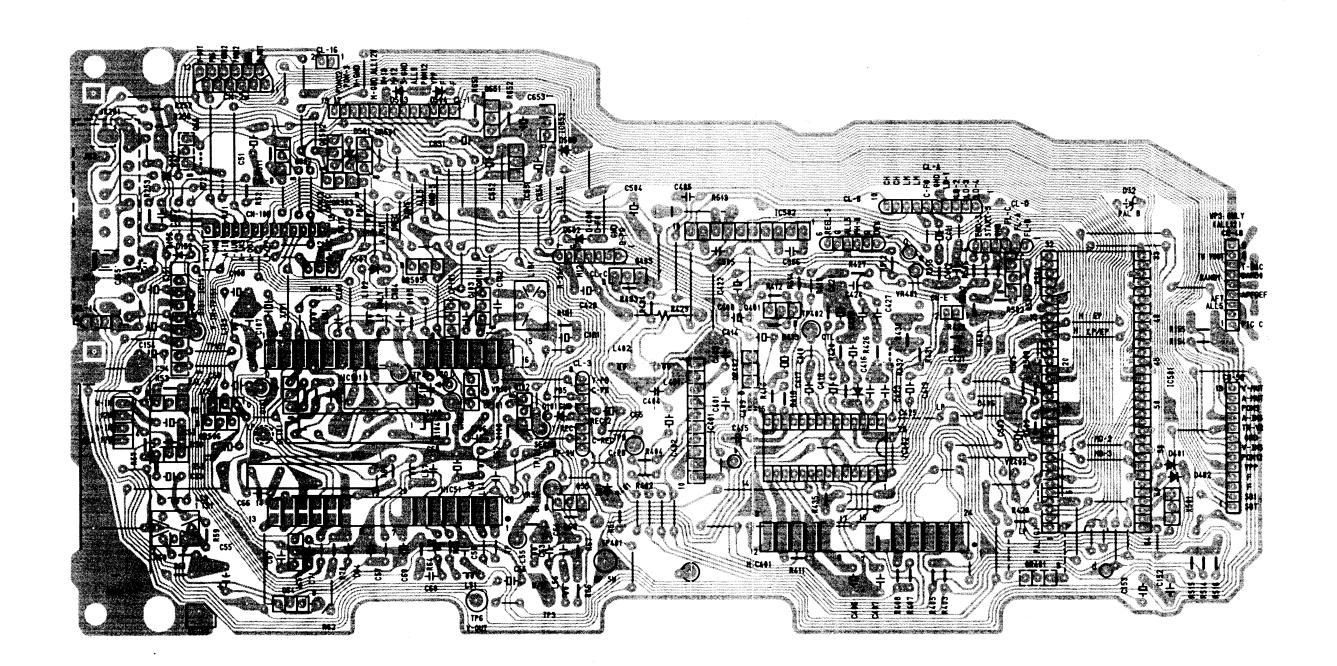
AUDIO P.C.BOARD VCR6100

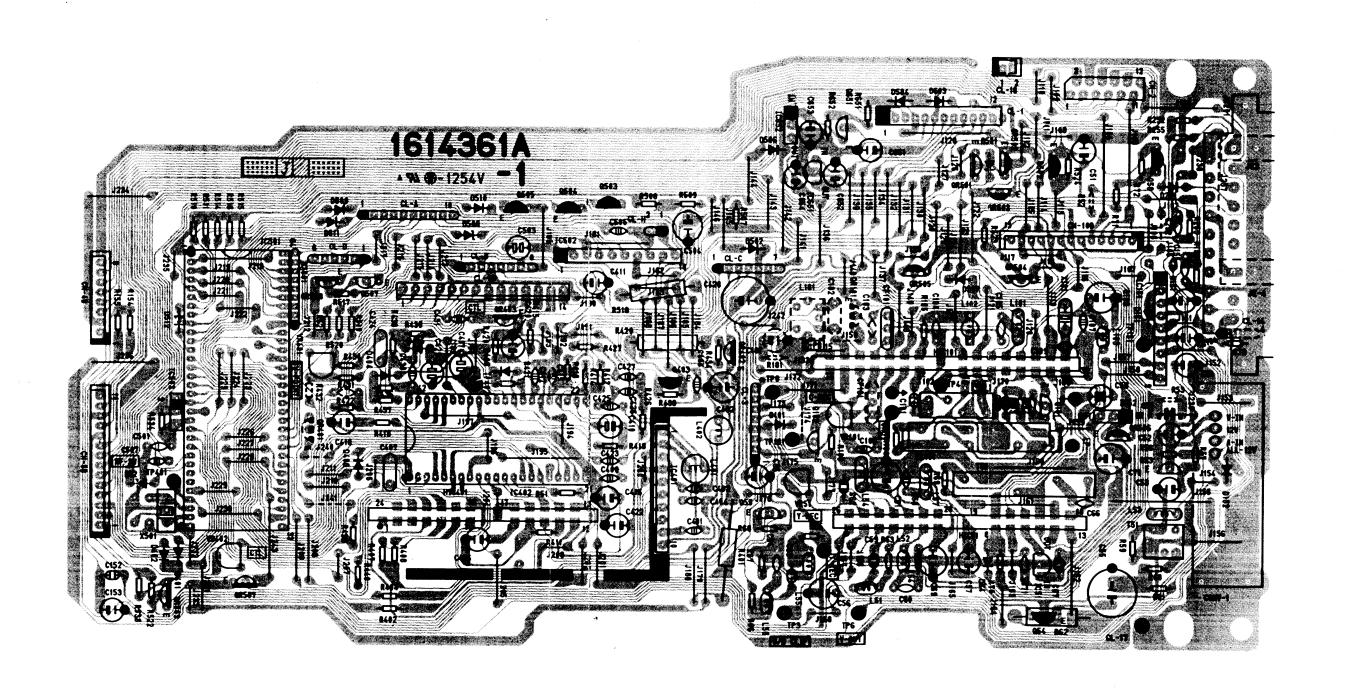


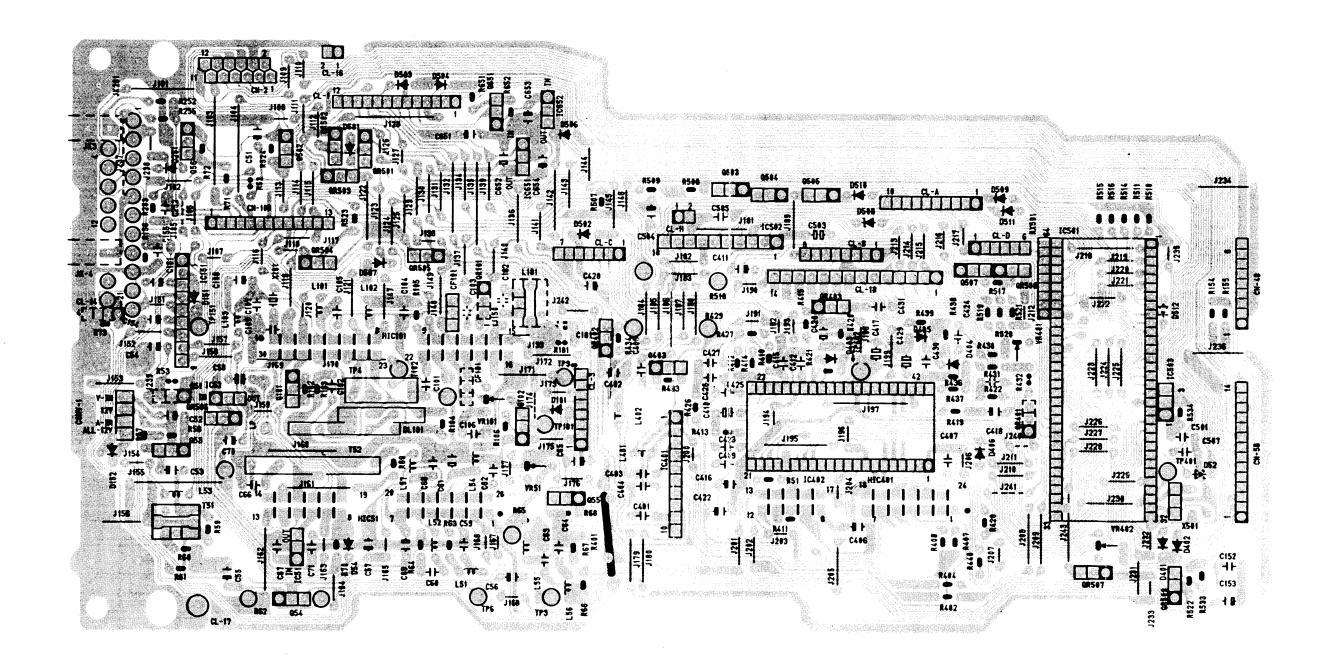
11-1-1 MAIN P.C.BOARD TOP VIEW VCR6000



MAIN P.C.BOARD BOTTOM VIEW VCR6000

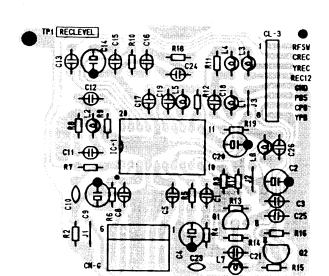






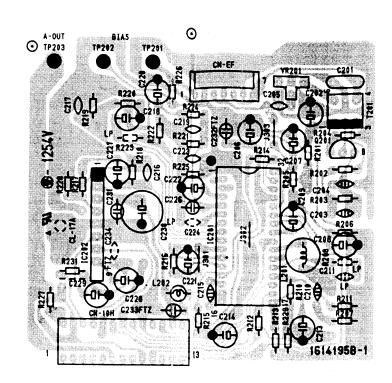
ALL DIAGRAMS ON THIS PAGE REFER TO VCR6000

11-3-1 HEAD AMP P.C.BOARD TOP VIEW

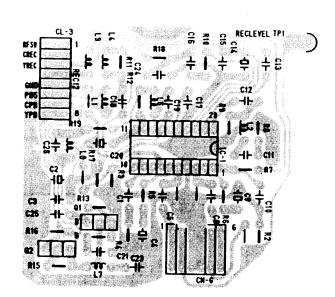


1614195C-1 494 49- 1254V

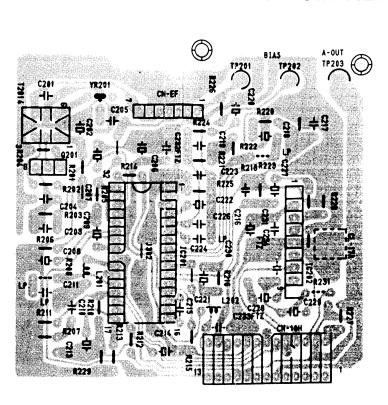
11-2-1 AUDIO P.C.BOARD TOP VIEW



11-3-2 HEAD AMP P.C.BOARD BOTTOM VIEW

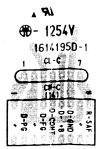


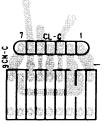
11-2-2 AUDIO P.C.BOARD BOTTOM VIEW



11-4-1 CONNECTOR A 11-4-2 CONNECTOR A

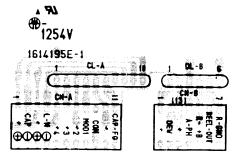
P.C.BOARD TOP VIEW P.C.BOARD BOTTOM VIEW

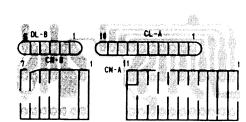




11-5-1 CONNECTOR B P.C.BOARD TOP VIEW

11-5-2 CONNECTOR B P.C.BOARD BOTTOM VIEV

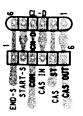




11-6-1 CONNECTOR C

11-6-2 CONNECTOR C P.C.BOARD TOP VIEW P.C.BOARD BOTTOM VIEW



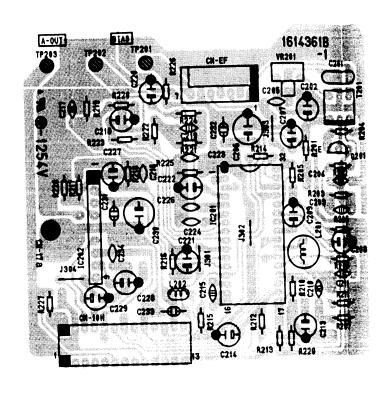


ALL DIAGRAMS ON THIS PAGE REFER TO VCR6100 ONLY

11-2-1 AUDIO P.C.BOARD TOP VIEW

11-2-2 AUDIO P.C.BOARD BOTTOM VIEW

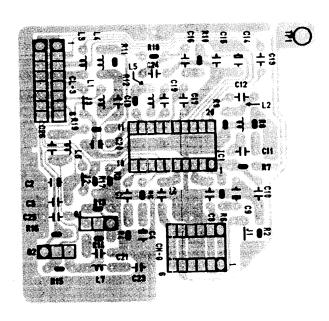
11-12-1 INDEX P.C.BOARD TOP VIEW

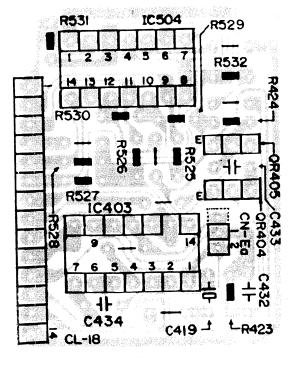


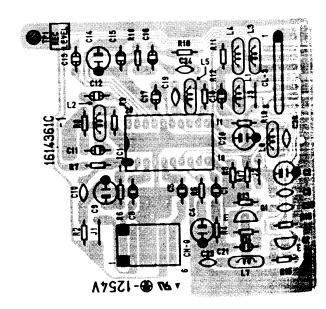
11-12-2 INDEX P.C.BOARD BOTTOM VIEW

11-3-1 HEAD AMP P.C.BOARD TOP VIEW

11-3-2 HEAD AMP P.C.BOARD BOTTOM VIEW







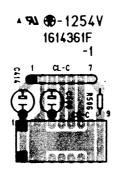
11-4-1 CONNECTOR A P.C.BOARD TOP VIEW P.C.BOARD BOTTOM VIEW

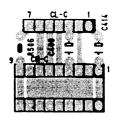




11-6-1 CONNECTOR C

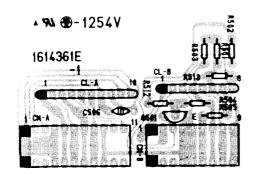
11-6-2 CONNECTOR C P.C.BOARD TOP VIEW P.C.BOARD BOTTOM VIEW

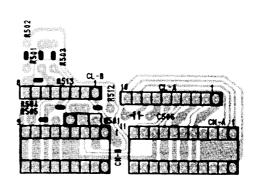




S PAGE REFER TO VCR6100 ONLY

4 EW 11-5-1 CONNECTOR B P.C.BOARD TOP VIEW 11-5-2 CONNECTOR B P.C.BOARD BOTTOM VIEW



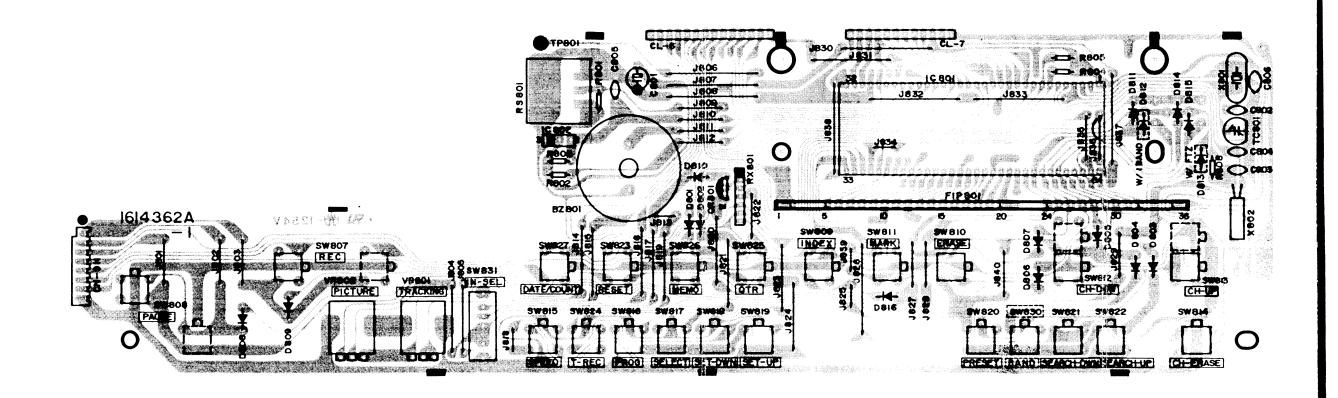


C EW 11-7-1 CONNECTOR D P.C.BOARD TOP VIEW 11-7-2 CONNECTOR D
P.C.BOARD BOTTOM VIEW

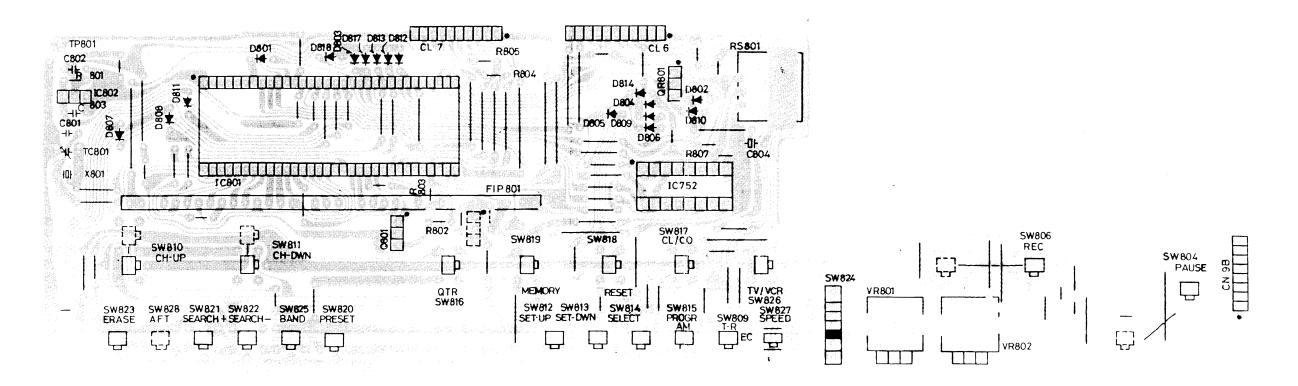




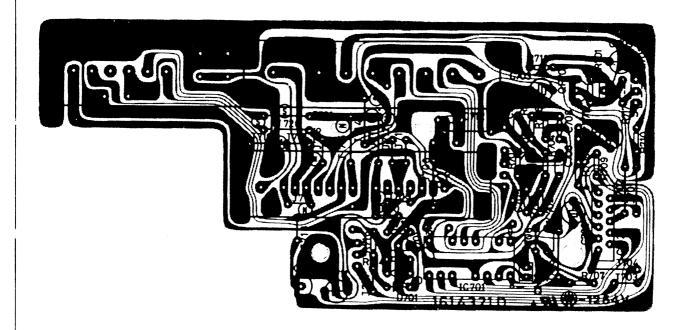
11-9-1 TIMER P.C.BOARD TOP VIEW VCR6100



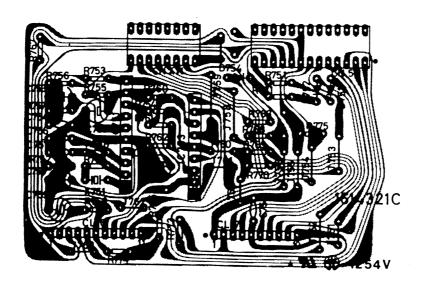
11-8-2 TIMER P.C.BOARD BOTTOM VIEW VCR6100



11-9-1 TUNER P.C.BOARD TOP VIEW

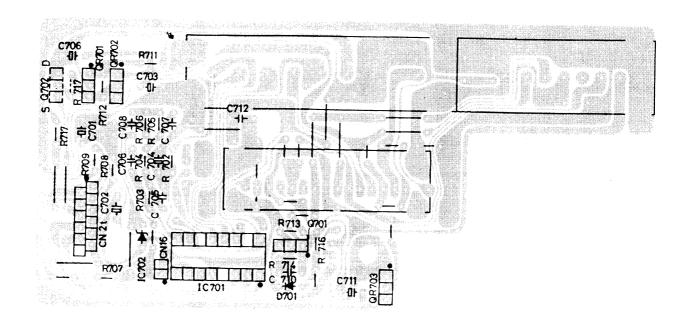


11-10-1 JOINT P.C.BOARD TOP VIEW

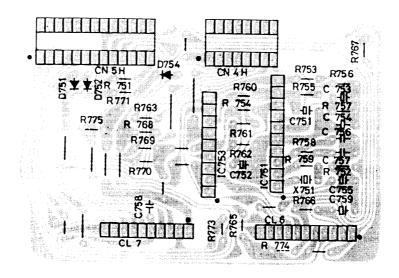


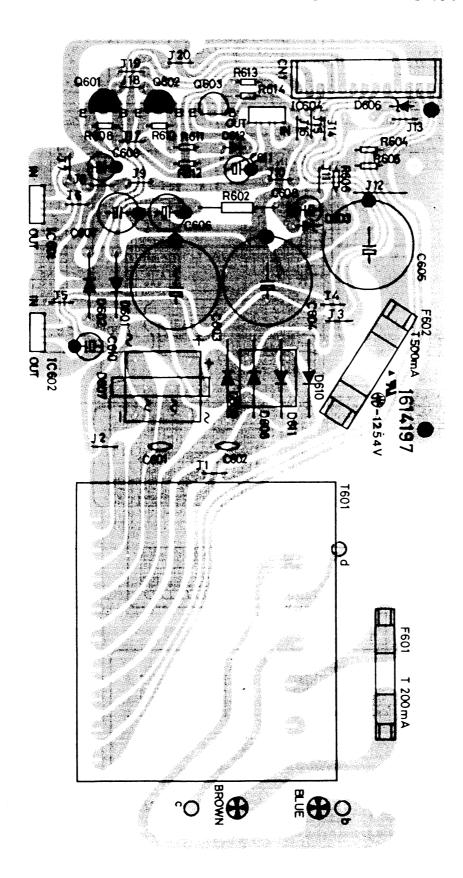
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11-9-2 TUNER P.C.BOARD BOTTOM VIEW

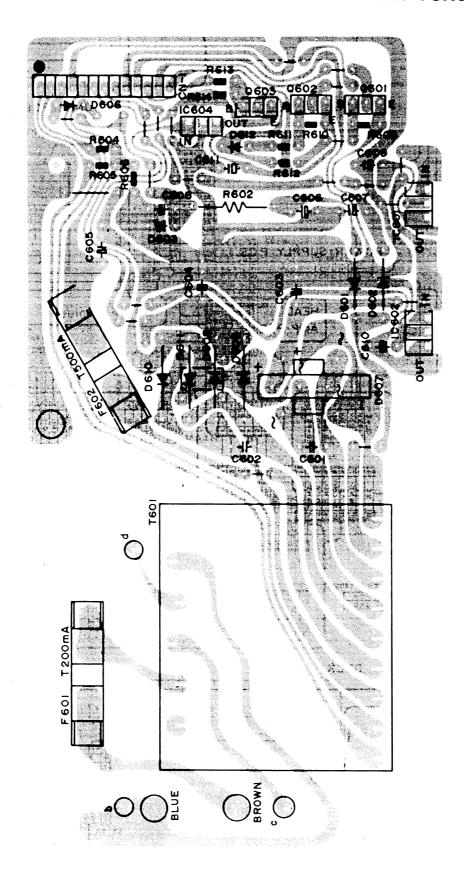


11-10-2 JOINT P.C.BOARD BOTTOM VIEW

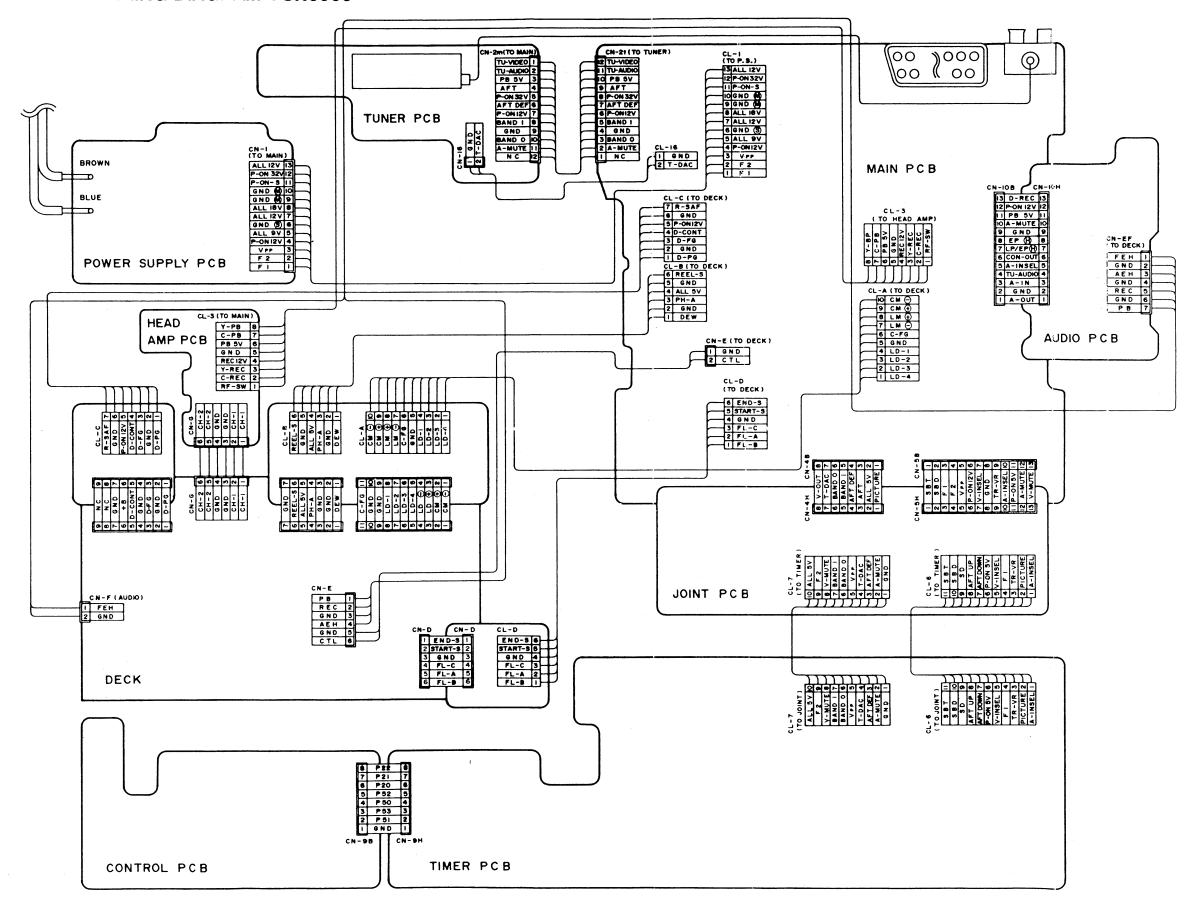




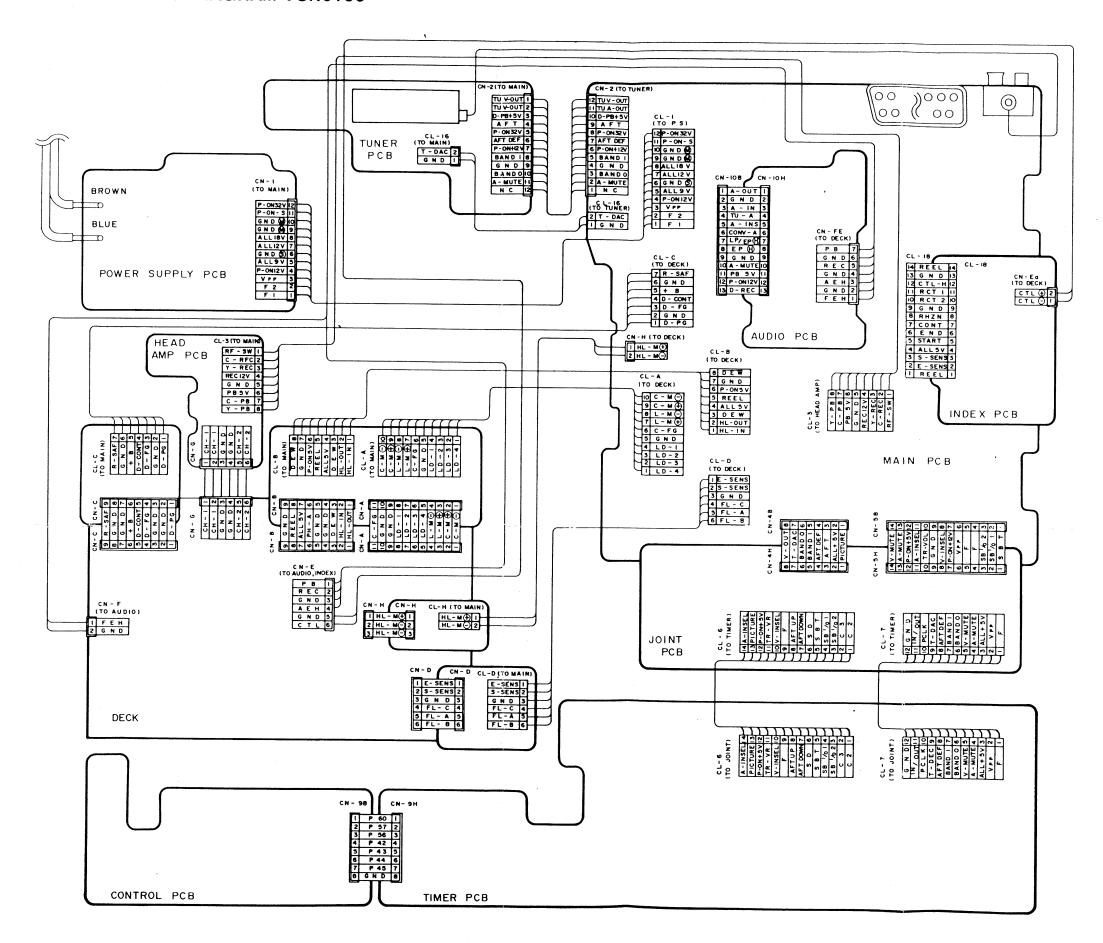
11-11-2 POWER SUPPLY P.C.BOARD BOTTOM VIEW VCR6000/6100



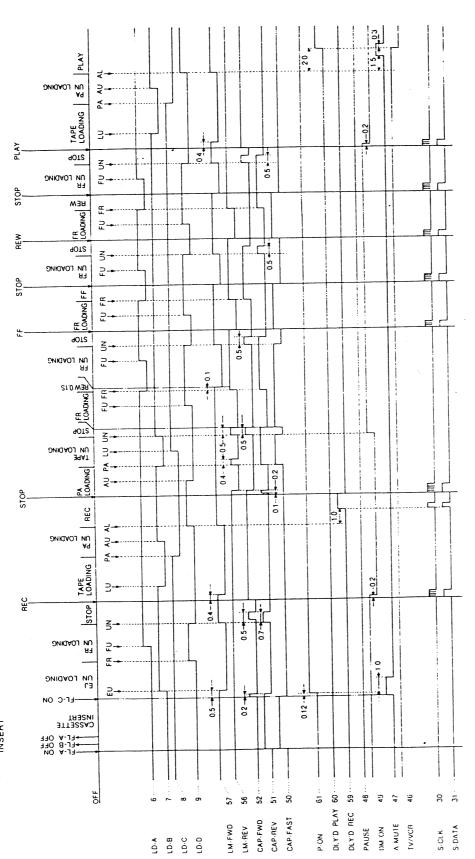
12. WIRING DIAGRAM VCR6000



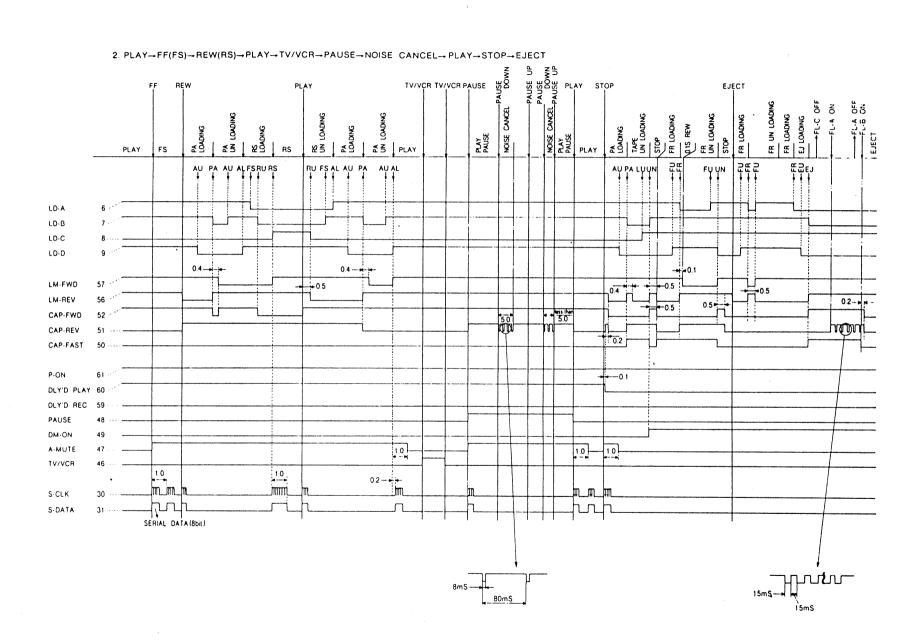
12. WIRING DIAGRAM VCR6100



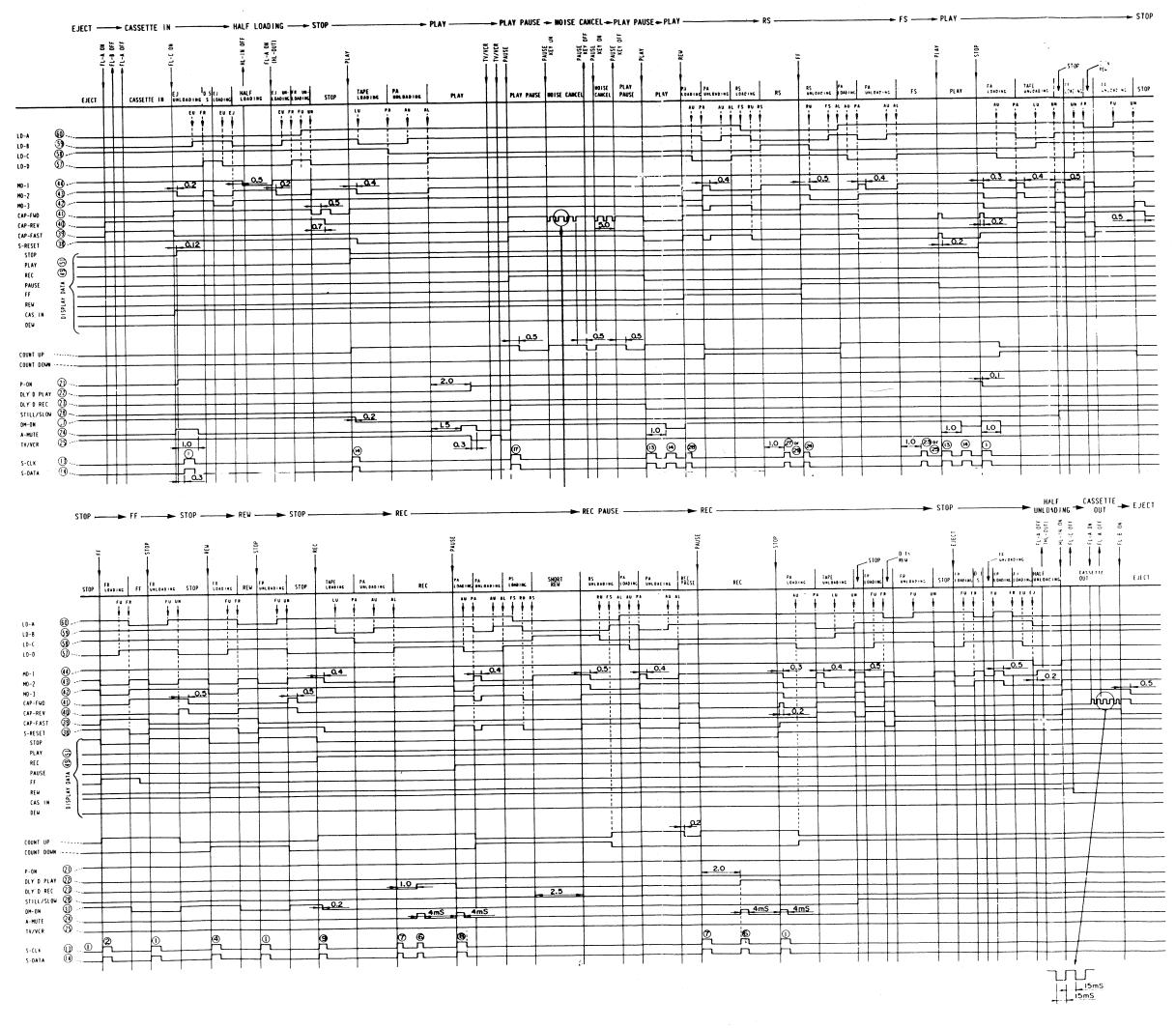
VCR6000 SYSTEM CONTROL TIMING CHARTS



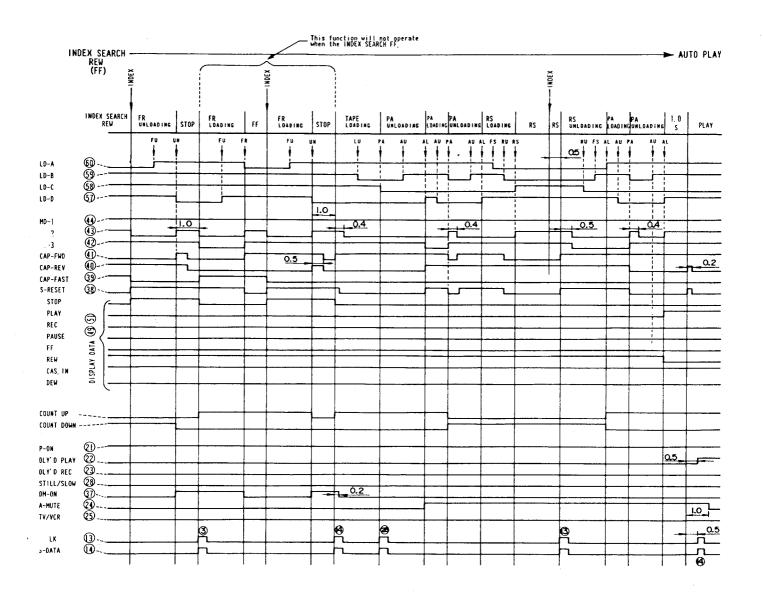
1. OFF-- CASSETTE- REC-STOP-FF-STOP-REW-STOP-PLAY



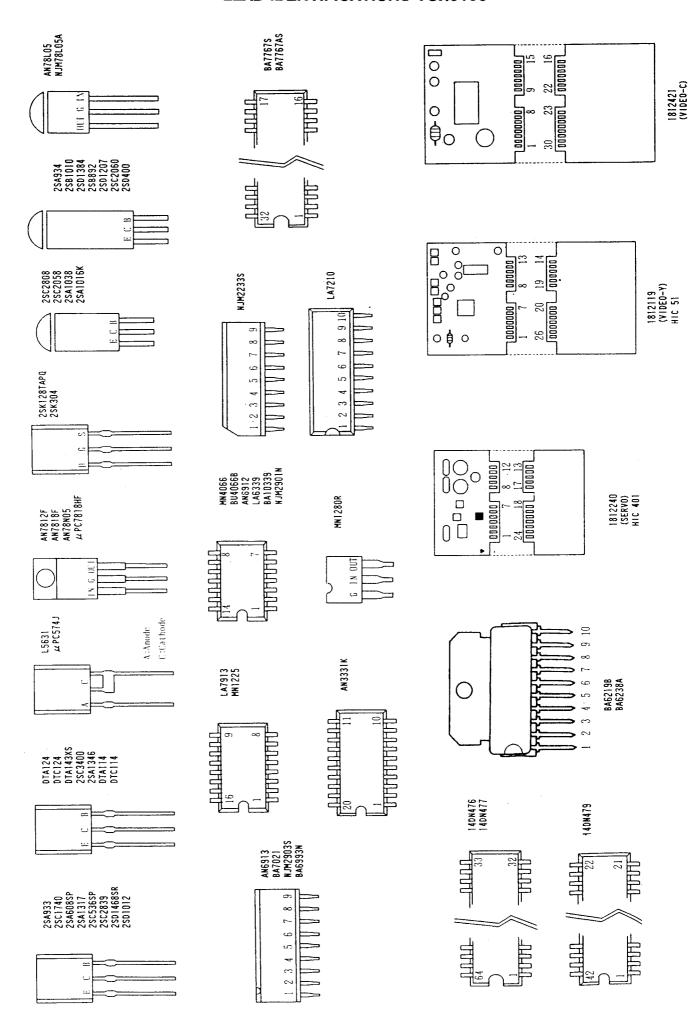
VCR6100 SYSTEM CONTROL TIMING CHARTS



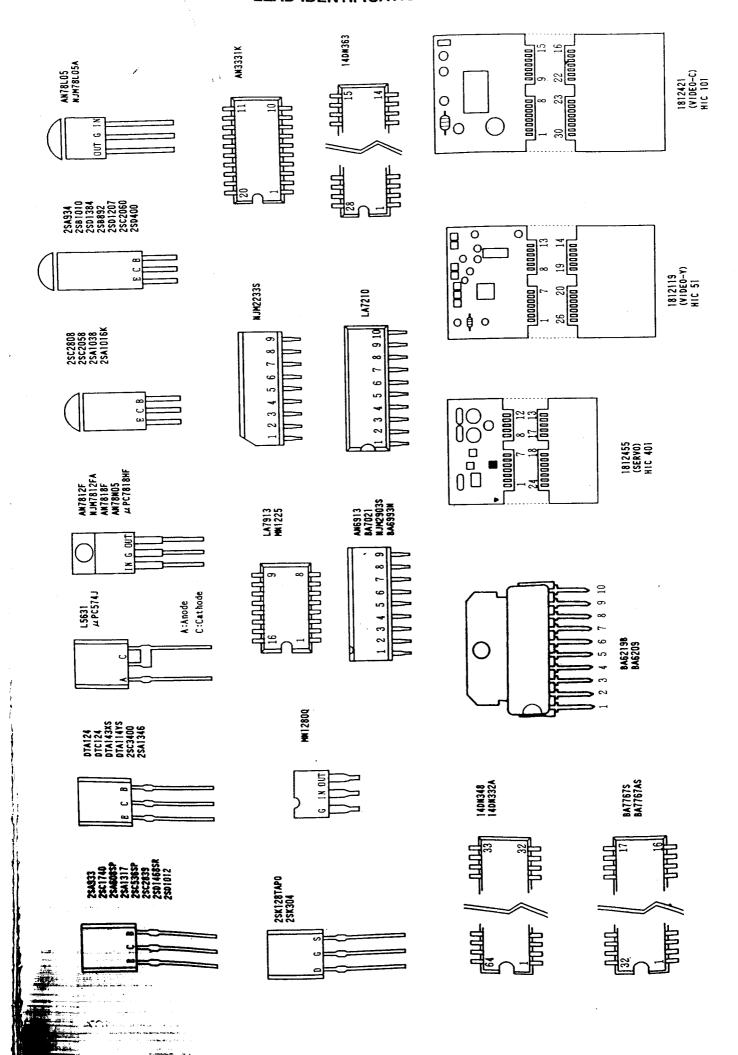
VCR6100 SYSTEM CONTROL TIMING CHART



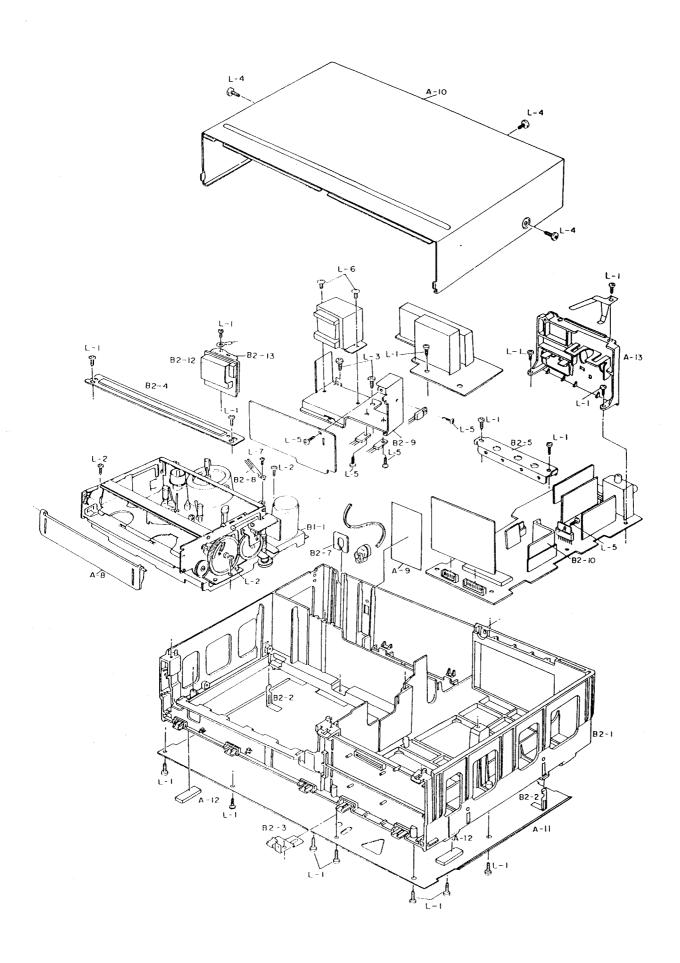
LEAD IDENTIFICATIONS VCR6100



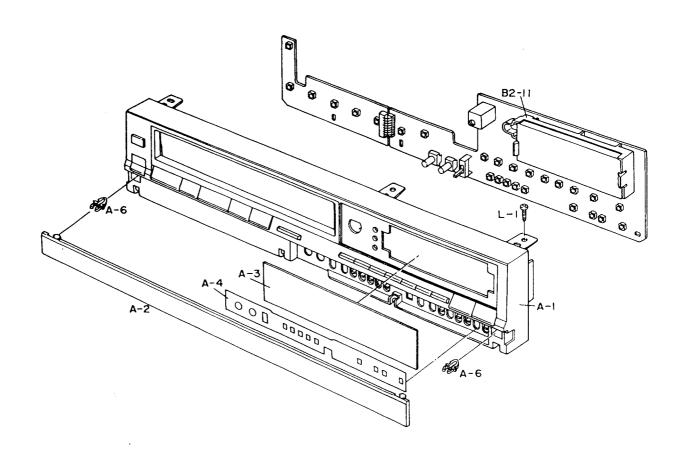
LEAD IDENTIFICATIONS VCR6000



MECHANICAL ASSEMBLY EXPLODED ' (PLEASE NOTE: ALL PARTS WITH PRE)



ODED VIEWS AND PARTS LISTS H PREFIX * REFER TO VCR6100)

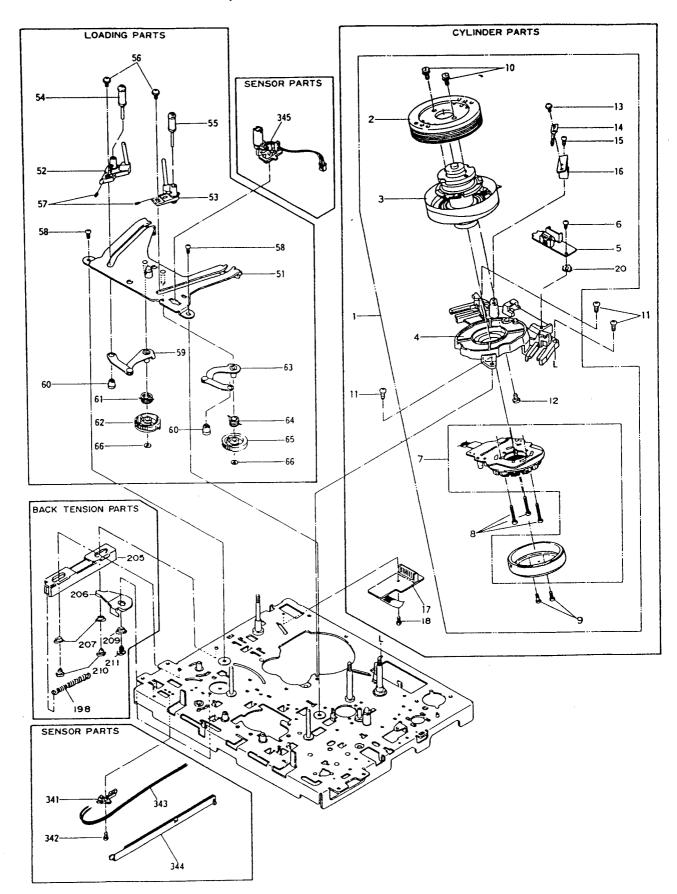


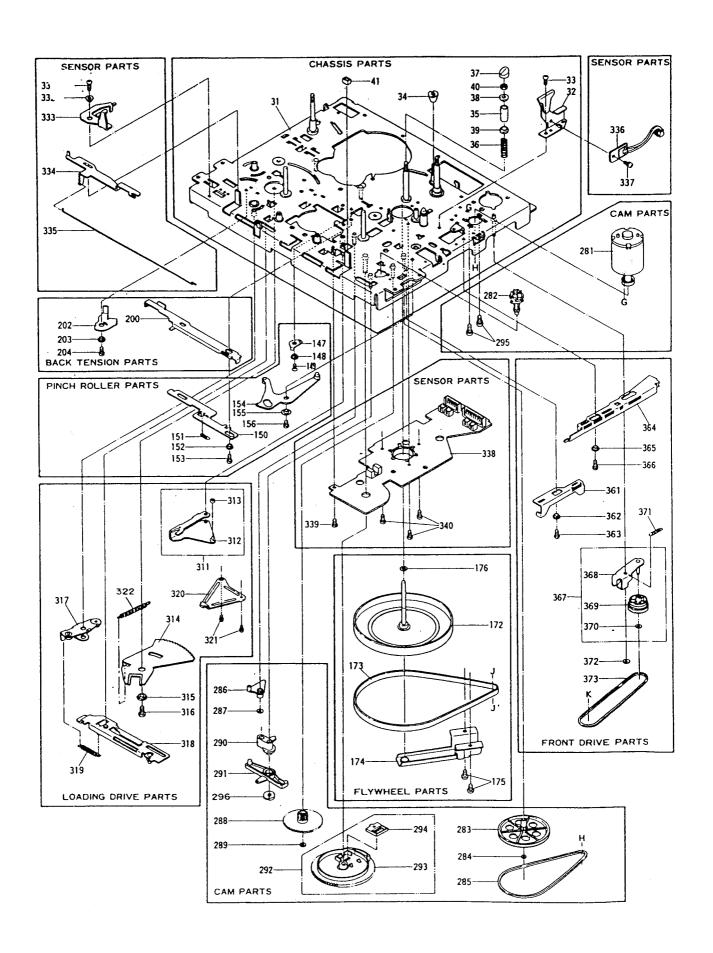
FRONT PANEL ASSEMBLY PARTS LIST

Ref. No.	Description	Part No.
A-1X	Front Panel Assembly VCR6000	153049
A-1X*	Front Panel Assembly VCR6100	153312
A-2	Door Timer VCR6000	153050
A-2*	Door Timer VCR6100	153313
A-6	Latch	153031
A-10	Cabinet Top	153052
A-11	Panel Bottom	153053
A-12	Foot	151455
	Jack Board	153054
	Label Warning	153055
B2-1	Cabinet Main	153057
	Ground Plate Main	153058
	Ground Plate PCB	153059
	Holder Deck Angle	152015
	Holder Supporter	153060
	Plate Ground (RF Converter)	153061

Ref. No.	Description	Part No.
1 1	Cylinder Assembly	153062
2	Drum Upper	153063
3	Drum Assembly Lower	153064
4	Mount Cylinder	153065
5	PCB Assembly Video Out	153066
6, 9	Screw, W Sems, M2.6 x 6	
7	Motor TM82	153067
8	Screw, Sems, M2.6 x 20	
10	Screw, Bind Sems, M3 x 8	
12	Screw, Camera, M2 x 5	
13	Screw, Cap, M2.6 x 3	
14	Ground Drum	153068
15, 18	Screw, C Tapping, M2.6 x 5	
16	Bracket Drum Ground	153069
17	P.C.B. Assembly DM	153070
20	Washer, Tooth Lock, M2.6	
51	Loading Base	153071
52	Block (L) Loading	153072
53	Block (R) Loading	153073
54	SIS, Roller Post	150724
55	SI Roller Post	153314
56	Screw, Cup, M2.6 x 3	
57	Screw, Set, M2.0 x 3	
58	Screw, S Tapping, M2.6 x 5	
59	Plate (L) Loading	153074
60	Boss Loading	153075
61	Spring (L) Loading Gear	153076
62	Gear (L) T Loading	153047
63	Plate (R) Loading	153077
64	Spring (R) Loading Gear	153078
65	Gear (R) T Loading	153079
66	Washer, Polyslider, $\phi 2.6 \times \phi 6 \times t0.5$	
198	Spring, Back Tension	153080
205	Plate BT Actuate	153081
206	Lever BT Actuate	153082
207	Collar BT Actuate Plate	153083
209	Collar	153084
210	Screw, S Tapping Camera, 2.6 x 3.5	
211	Screw, S Tapping 2.6 x 5	
341	Switch Leaf	153085
342	Screw, S Tapping, M2.6 x 5	
343	Wire	
344	Holder Wire	
345	Lamp Holder Assembly	153086
345*	Lamp Holder Assembly	

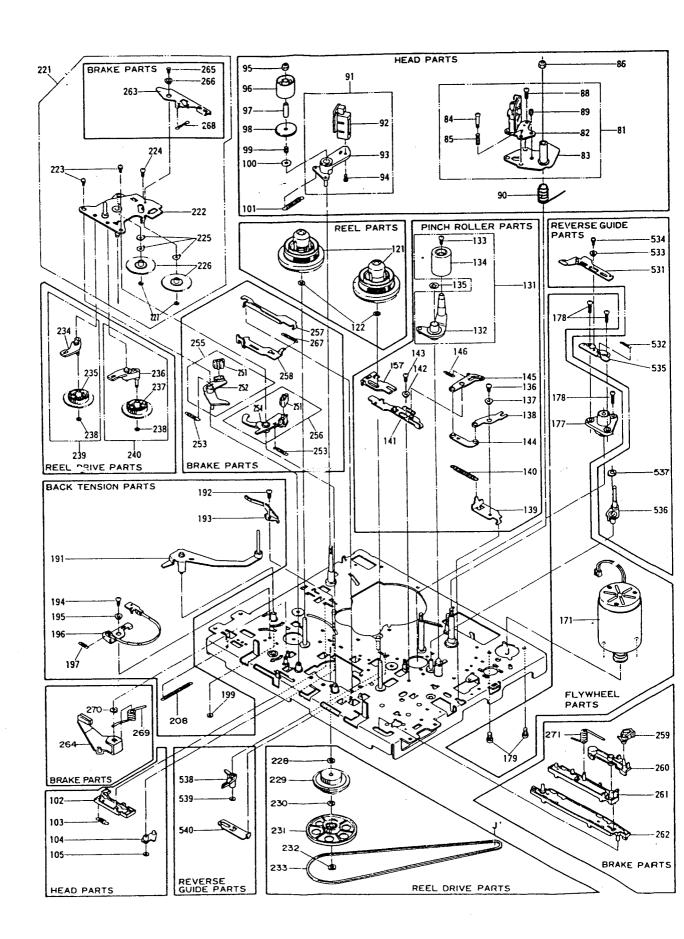
VIEWS AND PARTS LIST VCR6000/6100 'S WITH PREFIX * REFER TO VCR6100)

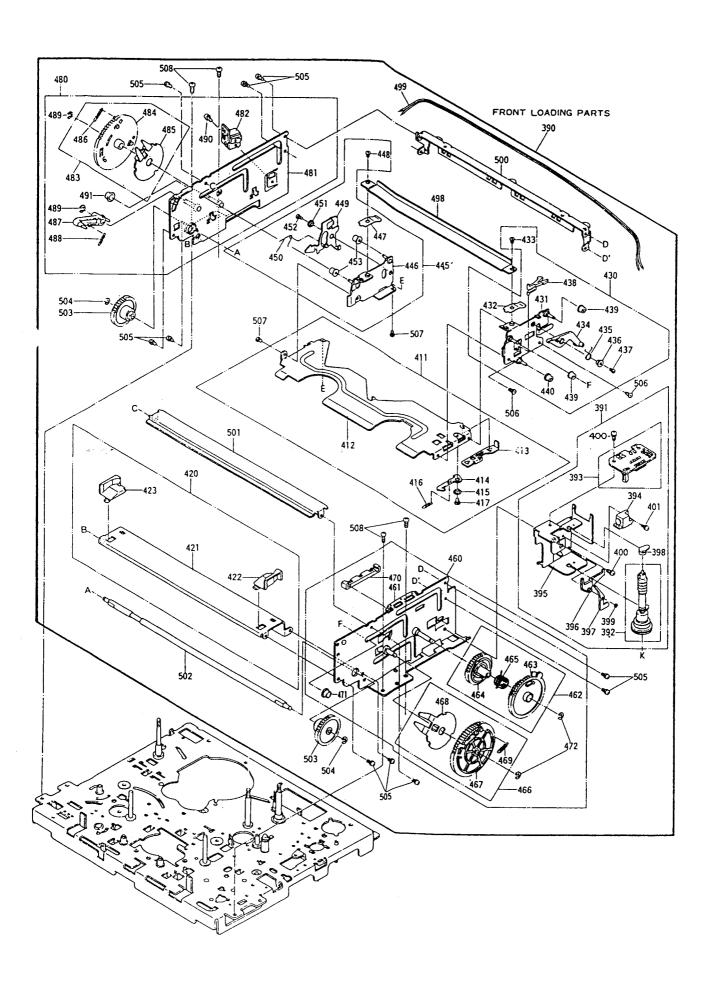




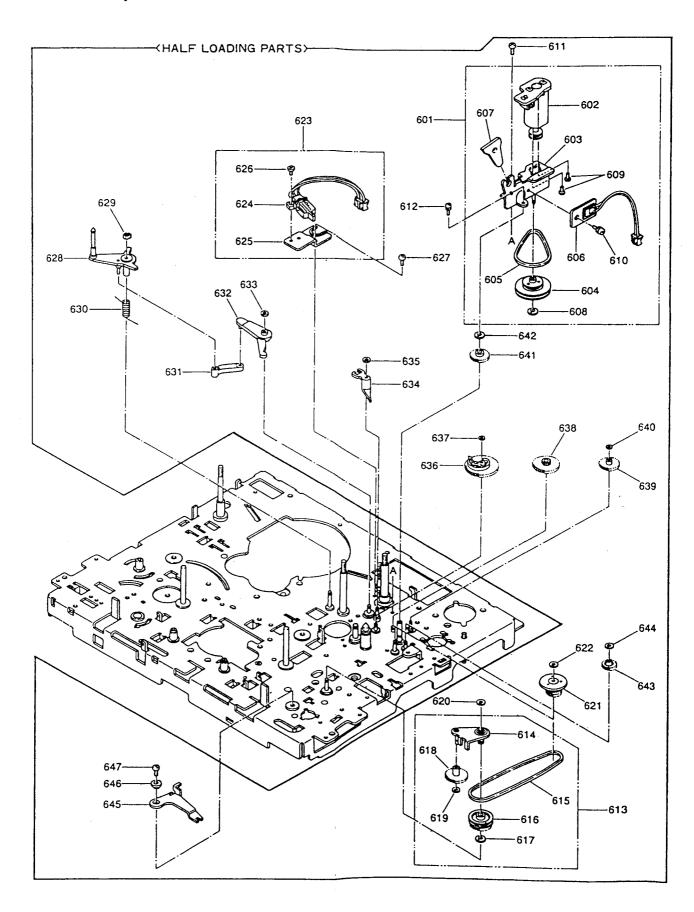
Ref.	Description	Part No.
81	Head Base Assembly	153133
	Head Ace	153134
83	Base Head	153135
83*	Base Head	
	Screw Azimuth Spring	1
	Spring Azimuth	151268
86, 95	Nut, Nylon, M3	150754
	Collar, Adjust	153255
	Screw, Pan Head, M2.6 x 7	
89	Screw, Set, M3 x 5	
90	Spring Head	153136
90*	Spring Head	153256
91	Plate Assembly Full Erase	153137
92	Head Full Erase	150759
93	Plate Full Erase	153138
94	Screw, Flange Bind, M2 x 3	
96	Roller Impedance	153139
97	Sleeve Impedance Roller	153140
98	Flange (A) Tape Guide	153141
99	Spring Tape Guide Flange	153142
100	Washer, Plain, ϕ 3 x ϕ 8 x t0.5	
101	Spring FE Plate	153143
102	Plate FE Slide	153144
103	Spring FE Actuate	153145
104	Lever FE Actuate	153146
105	Washer, Polyslider, ϕ 2.1 x ϕ 5 x t0.5	
121	Reel Assembly	153147
122	Washer, \$43.1 x \$6 x t0.5	
131	Arm Assembly Pinch Roller	153148
132	Arm Pinch Roller	153149
133	Screw, Pan Head, M2.6 x 4	ł
134	Roller (A) Pinch	150768
135	Washer, Polyslider, ϕ 5 x ϕ 8 x t0.5	
136	Screw, Sems, M2.6 x 4	
137	Collar	153084
138	Angle P Actuate	153150
139	Holder P Angle	153151
140	Spring P Roller	153152
141	Plate (A) P Slide	153153
142	Collar	
143	Screw, S Tapping, M2.6 x 5	1
144	Joint Plate	153154
145	Arm P Actuate	153155
146	Spring P Actuate Arm	153156
157	Plate (B) P Slide	153157
171	Motor Assembly Capstan	153158
177	Housing Assembly Metal	153159
178	Screw, S Tapping, M2.6 x 8	1
179	Screw, Sems, M3 x 4	153160
191	Arm Back Tension	153160
192, 194		153161
193	Support Back Tension	153161
195	Collar Band Holder Band BT	153162
196		153163
197	Spring Band Holder Washer, Polyslider, ¢2.1 x ¢4 x t0.5	155104
199 208	Spring BT Actuate Plate	153165
200	Oping Di Actuate Fiato	100.00

221 Plate Semi Assembly 153196 222 Plate Semi Assembly 153197 223 Screw, Sems, M2 x 4 153197 224 Screw, Same, M2 x 4 225 225 Gear Reel Drive 153198 226 Gear Reel Drive 153198 263 Brake Take-Up Soft 153199 265 Screw, Camera, M2 x 3 153199 266 Collar Take-Up Soft Brake Arm 153200 266* Collar Take-Up Soft Brake Arm 153201 228 Washer, Nylon, ф3.1 x φ6 x t0.3 153201 229 Clutch Assembly 153201 230 Washer, Nylon, ф2.98 x φ6 x t0.3 153202 231 Pulley Assembly Middle 153203 232 Washer, Polyslider, φ2.6 x φ6 x t0.5 153204 233 Belt Drive 153204 234 Arm Assembly P Gear 153206 235 Gear Play 153206 236 Arm Assembly RF Gear 153210 255 Arm Assembly RF Gear 153210 <th>Ref.</th> <th>Description</th> <th>Part No.</th>	Ref.	Description	Part No.
222	221	Plate Assembly	153196
224 Screw, S Tapping, M2.6 x 4 225 Washer Wave 226 Gear Reel Drive 153198 227 E Ring S 1.5 150734 263 Brake Take-Up Soft 153199 265 Screw, Camera, M2 x 3 153199 266* Collar Take-Up Soft Brake Arm 153200 268* Spring Take-Up Soft Brake Arm 153218 268 Spring Take-Up Soft Brake Arm 153201 228 Washer, Nylon, φ3.1 x φ6 x t0.3 153201 229 Clutch Assembly 153202 230 Washer, Nylon, ф2.98 x φ6 x t0.3 153203 231 Pulley Assembly Middle 153203 232 Washer, Polyslider, φ2.6 x φ6 x t0.5 153204 233 Belt Drive 153205 234 Arm Assembly P Gear 153205 235 Gear Assembly RF 153205 236 Arm Assembly RF Gear 153210 255 Arm Assembly B Brake 153211 255 Arm Assembly T Brake 153213 <		Plate Semi Assembly	153197
225 Washer Wave 226 Gear Reel Drive 227 E Ring S 1.5 263 Brake Take-Up Soft 265 Screw, Camera, M2 x 3 266 Collar Take-Up Soft Brake Arm 268* Spring Take-Up Soft Brake Arm 268* Spring Take-Up Soft Brake Arm 268* Spring Take-Up Soft Brake Arm 228 Washer, Nylon, φ3.1 x φ6 x t0.3 229 Clutch Assembly 230 Washer, Nylon, φ2.98 x φ6 x t0.3 231 Pulley Assembly Middle 232 Washer, Polyslider, φ2.6 x φ6 x t0.5 233 Belt Drive 239 Gear Assembly P 230 Flay 230 Washer, Polyslider, φ1.6 x φ3.8 x t0.3 231 Pulley Assembly P 232 Gear Assembly P 233 Gear Assembly P 234 Arm Assembly P Gear 235 Gear Play 238 Washer, Polyslider, φ1.6 x φ3.8 x t0.3 240 Gear Assembly RF 253 Spring Brake Arm 254 Arm Assembly RF Gear 255 Arm Assembly S Brake 255 Arm Assembly S Brake 255 Arm S Brake 256 Arm Assembly T Brake 257 Lifter Brake 258 Actuator L Brake 259 Hook Trigger 260 Lever Trigger 261 Plate Brake 262 Brake Actuator Base 263 Brake Actuator Base 264 Brake S Soft 265 Spring L Brake Actuator 266 Screw, Sems, M2 x 4 267 Spring RG Slide 268 Side 269 Spring RG Slide 260 Collar RG Slide 261 Plate RG Slide 262 Spring RG Slide 2634 Arm Rem Inspection 2656 Soft Brake 2667 Spring RG Slide 267 Spring RG Slide 268 Screw, Sems, M2 x 4 269 Spring RG Slide 260 Arm Semily RG 261 Plate RG Slide 262 Spring RG Slide 263 Collar RG Slide 263 Arm Semily RG 264 Screw, Sems, M2 x 4 2658 Arm RG Actuate 2659 Arm Rem Inspection 2650 Arm Semily RG 2650 Arm Semily RG 2651 Arm Rem Inspection 2651 Arm Rem Inspection 2652 Arm Rem Inspection 2653 Arm Rem Inspection 2653 Arm Rem Inspection 2654 Arm Rem Inspection 2655 Arm Rem Inspection 2656 Arm Semily RG 2657 Washer, Polyslider, φ2.1 x φ5 x t0.5 2658 Arm Rem Inspection 2658 Arm Rem Inspection 2659 Arm Rem Inspection 2650 Arm Semily RG 2650 Arm Semily RG 2651 Arm Rem Inspection 2651 Arm Rem Inspection 2652 Arm Rem Inspection 2653 Arm Rem Inspection 2653 Arm Rem Inspection 2654 Arm Rem Actuate 26554 Arm	223		
226 Gear Reel Drive 227 E Ring S 1.5 263 Brake Take-Up Soft 265 Screw, Camera, M2 x 3 266 Collar Take-Up Soft Brake Arm 268 Spring Take-Up Soft Brake Arm 268 Spring Take-Up Soft Brake Arm 278 Washer, Nylon, φ3.1 x φ6 x t0.3 280 Washer, Nylon, φ2.98 x φ6 x t0.3 290 Washer, Nylon, φ2.98 x φ6 x t0.3 291 Pulley Assembly Middle 202 Washer, Polyslider, φ2.6 x φ6 x t0.5 203 Belt Drive 203 Gear Assembly P 204 Arm Assembly P Gear 205 Gear Play 206 Arm Assembly RF 207 Gear FF 208 Spring Brake Arm 209 Gear Assembly RF 209 Gear FF 201 Spring Brake Arm 201 Spring Brake Arm 201 Spring Brake Arm 202 Spring Brake Arm 203 Spring Brake Arm 204 Gear Assembly RF Gear 205 Spring Brake Arm 205 Arm Assembly S Brake 206 Arm Assembly T Brake 207 Spring Brake Arm 208 Arm Assembly T Brake 209 Spring Brake 209 Spring Brake 209 Spring Brake 209 Spring Brake 200 Spring 200 Spring Brake 200 Spring 20	224	Screw, S Tapping, M2.6 x 4	
227 E Ring S 1.5 263 Brake Take-Up Soft 265 Screw, Camera, M2 x 3 266 Collar Take-Up Soft Brake Arm 266* Collar Take-Up Soft Brake Arm 268 Spring Take-Up Soft Brake Arm 228 Washer, Nylon, φ3.1 x φ6 x t0.3 229 Clutch Assembly 230 Washer, Nylon, φ2.98 x φ6 x t0.3 231 Pulley Assembly Middle 232 Washer, Polyslider, φ2.6 x φ6 x t0.5 233 Belt Drive 239 Gear Assembly P 230 Washer, Polyslider, φ1.6 x φ3.8 x t0.3 231 Gear Play 232 Washer, Polyslider, φ1.6 x φ3.8 x t0.3 233 Gear Assembly P 234 Arm Assembly RF 235 Gear Play 237 Gear FF 257 Spring Brake Arm 255 Arm Assembly S Brake 256 Arm Assembly S Brake 256 Arm Assembly T Brake 256 Arm Assembly T Brake 257 Lifter Brake 258 Actuator L Brake 259 Hook Trigger 260 Lever Trigger 261 Plate Brake 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring RG Slide 272 Arm, Brake Actuator 273 Spring RG Slide 274 Arm Brake Actuator 275 Spring RG Slide 276 Arm Brake Actuator 277 Arm, Brake Actuator 278 Arm, Brake Actuator 279 Flate RG Slide 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever 272 Arm, Brake Actuator 273 Spring RG Slide 274 Arm Semily RG 275 Spring RG Slide 276 Arm Semily RG 277 Arm, Brake Actuator 278 Arm, Brake Actuator 279 Spring RG Slide 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring RG Slide 272 Spring RG Slide 273 Collar RG Slide Plate 274 Arm, Brake Actuator 275 Spring RG Slide 276 Arm Semi Assembly RG 277 Washer, Polyslider, φ2.6 x φ6 x t0.5 278 Arm Semi Assembly RG 279 Arm, Brake Actuator 270 Spring RG Slide 271 Spring RG Slide 272 Arm, Brake Actuator 273 Spring RG Slide 274 Arm, Brake Actuator 275 Spring RG Slide 276 Arm Semi Assembly RG 277 Washer, Polyslider, φ2.6 x φ6 x t0.5 278 Arm RG Actuate 279 Washer, Polyslider, φ2.6 x φ6 x t0.5 279 Arm, RG Actuate 270 Washer, Polyslider, φ2.6 x φ6 x t0.5 271 Spring RG Slide 272 Arm, RG Actuate 273 Washer, Polyslider, φ2.6 x φ6 x t0.5 274 Arm, RG Actuate 275 Arm RG Actuate 276 Arm RG Actuate 277 Washer, Polyslider, φ2.1 x φ5 x t0.5	225	Washer Wave	
263 Brake Take-Up Soft 265 Screw, Camera, M2 x 3 266 Collar Take-Up Soft Brake Arm 153200 266* Collar Take-Up Soft Brake Arm 153218 268 Spring Take-Up Soft Brake Arm 153218 228 Washer, Nylon, φ3.1 x φ6 x t0.3 229 Clutch Assembly Middle 230 Washer, Nylon, φ2.98 x φ6 x t0.3 231 Pulley Assembly Middle 232 Washer, Polyslider, φ2.6 x φ6 x t0.5 233 Belt Drive 153205 234 Arm Assembly P Gear 153206 235 Gear Assembly P 153205 236 Washer, Polyslider, φ1.6 x φ3.8 x t0.3 240 Gear Assembly RF 236 Arm Assembly RF 237 Gear FF 153210 255 Arm Assembly RF 35321 255 Arm Assembly S Brake 153212 255 Arm Assembly S Brake 153212 255 Arm Assembly T Brake 153215 256* Arm Assembly T Brake 153215 256* Arm Assembly T Brake 153215 257* Lifter Brake 153216 259 Hook Trigger 153220 260 Lever Trigger 153220 261 Plate Brake 153217 262 Brake Actuator Base Brake S Soft 153223 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever Arm, Brake Actuator 153225 253 259 Plate RG Slide 153225 253 259 Plate RG Slide 153225 253 250 Arm S Brake 153215 255 257* Spring Trigger Lever 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 2532 254 Arm S Brake Actuator 25322 255 257 Spring RG Slide 153223 255 257 Spring RG Slide 153225 253 253 250 Arm Semilake Actuator 253225 254 255 257 Spring RG Slide 153225 255 255 257 Spring RG Slide 153225 255 255 255 255 255 255 255 255 25	226		
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266 * 266* Collar Take-Up Soft Brake Arm 153200 268 Spring Take-Up Soft Brake Arm 153218 228 Washer, Nylon, φ3.1 x φ6 x t0.3 153201 229 Clutch Assembly 153201 230 Washer, Nylon, φ2.98 x φ6 x t0.3 153202 231 Pulley Assembly Middle 153203 232 Washer, Polyslider, φ2.6 x φ6 x t0.5 153204 239 Gear Assembly P 153205 234 Arm Assembly P Gear 153206 235 Gear Play 153206 238 Washer, Polyslider, φ1.6 x φ3.8 x t0.3 153207 240 Gear Assembly RF 153208 236 Arm Assembly RF Gear 153208 237 Gear FF 153210 253 Spring Brake Arm 153213 255 Arm Assembly S Brake 153213 255 Arm Assembly T Brake 153213 256* Arm Assembly T Brake 153213 256* Arm Assembly T Brake 153215 256* Arm Assembly T Brake 153215 257 Lifter Brake 153215 258 Actuator L Brake 153216 257* Lifter Brake 153219 260 Lever Trigger 153220<			153199
266* Collar Take-Up Soft Brake Arm 153218 268 Spring Take-Up Soft Brake Arm 153201 228 Washer, Nylon, φ3.1 x φ6 x t0.3 153202 230 Washer, Nylon, φ2.98 x φ6 x t0.3 153202 231 Pulley Assembly Middle 153203 232 Washer, Polyslider, φ2.6 x φ6 x t0.5 153204 239 Gear Assembly P 153205 234 Arm Assembly P Gear 153206 235 Gear Assembly P Gear 153207 238 Washer, Polyslider, φ1.6 x φ3.8 x t0.3 153207 240 Gear Assembly RF 153206 237 Gear FF 153208 237 Gear FF 153210 253 Spring Brake Arm 153211 253 Spring Brake Arm 153211 253 Spring Brake Arm 153210 253 Spring Brake Arm 153211 255 Arm Assembly T Brake 153211 255 Arm Assembly T Brake 153213 252 Arm T Brake 153221 </td <td></td> <td></td> <td>450000</td>			450000
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228 Washer, Nylon, φ3.1 x φ6 x t0.3 229 Clutch Assembly 230 Washer, Nylon, φ2.98 x φ6 x t0.3 231 Pulley Assembly Middle 232 Washer, Polyslider, φ2.6 x φ6 x t0.5 233 Belt Drive 239 Gear Assembly P 234 Arm Assembly P Gear 235 Gear Play 238 Washer, Polyslider, φ1.6 x φ3.8 x t0.3 240 Gear Assembly RF 236 Arm Assembly RF Gear 237 Gear FF 253 Spring Brake Arm 255 Arm Assembly S Brake 251 Shoe Brake 252 Arm S Brake 252 Arm S Brake 253 Arm Assembly T Brake 256 Arm Assembly T Brake 257 Lifter Brake 257 Lifter Brake 258 Actuator L Brake 259 Hook Trigger 260 Lever Trigger 260 Lever Trigger 261 Plate Brake Actuator 269 Spring L Brake Actuator 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever 272 Arm, Brake Actuator 273 Gear FF 274 Arm Sering R Gear 275 Arm Assembly T Brake 2770 Washer, Polyslider, φ2.1 x φ5 x t0.5 278 Lifter Brake Actuator 279 Arm, Brake Actuator 271 Spring Trigger Lever 272 Arm, Brake Actuator 273 Arm, Brake Actuator 274 Arm Sering R Gilde 275 Arm Sering R Gilde 276 Arm Brake Actuator 277 Arm, Brake Actuator 278 Arm, Brake Actuator 279 Arm, Brake Actuator 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever 272 Arm, Brake Actuator 273 Arm, Brake Actuator 274 Arm, Brake Actuator 275 Arm, Brake Actuator 276 Arm, Brake Actuator 277 Arm, Brake Actuator 278 Arm, Brake Actuator 279 Arm, Brake Actuator 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever 272 Arm, Brake Actuator 273 Arm, Brake Actuator 274 Arm, Brake Actuator 275 Arm, Brake Actuator 276 Arm, Brake Actuator 277 Arm, Brake Actuator 278 Arm, Brake Actuator 279 Arm, Brake Actuator 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever 272 Arm, Brake Actuator 273 Arm, Brake Actuator 274 Arm, Brake Actuator 275 Arm, Brake Actuator 276 Arm, Brake Actuator 277 Arm, Brake Actuator 278 Arm, Brake Actuator 279 Arm, Brake Actuator 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever 272 Arm, Brake Actuator 273 Arm, Brake Actuator 274 Arm, Brake Actuator 275 Arm Assembly R Arm Assembly R Arm,	1		
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261 Plate Brake 153221 262 Brake Actuator Base 153222 264 Brake S Soft 153223 267 Spring L Brake Actuator 153224 269 Spring S Soft Brake 153225 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 153225 271 Spring Trigger Lever 153226 272 Arm, Brake Actuator 153253 531 Plate RG Slide 153227 532 Spring RG Slide 153228 533 Collar RG Slide Plate 153228 534 Screw, Sems, M2 x 4 153230 535 Base RG Slide 153230 536 Arm Semi Assembly RG 153231 537 Washer, Polyslider, φ2.6 x φ6 x t0.5 153231 538* Arm RG Actuate 153232 539 Washer, Polyslider, φ2.1 x φ5 x t0.5		,	
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267 Spring L Brake Actuator 269 Spring S Soft Brake 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever 272 Arm, Brake Actuator 273 Plate RG Slide 274 Spring RG Slide 275	262	Brake Actuator Base	153222
269 Spring S Soft Brake 270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever 272 Arm, Brake Actuator 531 Plate RG Slide 532 Spring RG Slide 533 Collar RG Slide Plate 534 Screw, Sems, M2 x 4 535 Base RG Slide 536 Arm Semi Assembly RG 537 Washer, Polyslider, φ2.6 x φ6 x t0.5 538 Arm, RG Actuate 539 Washer, Polyslider, φ2.1 x φ5 x t0.5	264	Brake S Soft	153223
270 Washer, Polyslider, φ2.1 x φ5 x t0.5 271 Spring Trigger Lever 272 Arm, Brake Actuator 531 Plate RG Slide 532 Spring RG Slide 533 Collar RG Slide Plate 534 Screw, Sems, M2 x 4 535 Base RG Slide 536 Arm Semi Assembly RG 537 Washer, Polyslider, φ2.6 x φ6 x t0.5 538 Arm, RG Actuate 539 Washer, Polyslider, φ2.1 x φ5 x t0.5	267	Spring L Brake Actuator	1
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536 Arm Semi Assembly RG 153231 537 Washer, Polyslider, φ2.6 x φ6 x t0.5 538 Arm, RG Actuate 153232 538* Arm RG Actuate 153232 539 Washer, Polyslider, φ2.1 x φ5 x t0.5		l · · · · · · · · · · · · · · · · · · ·	153230
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539 Washer, Polyslider, φ2.1 x φ5 x t0.5	I .	•	
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are for model VCR6100 only.



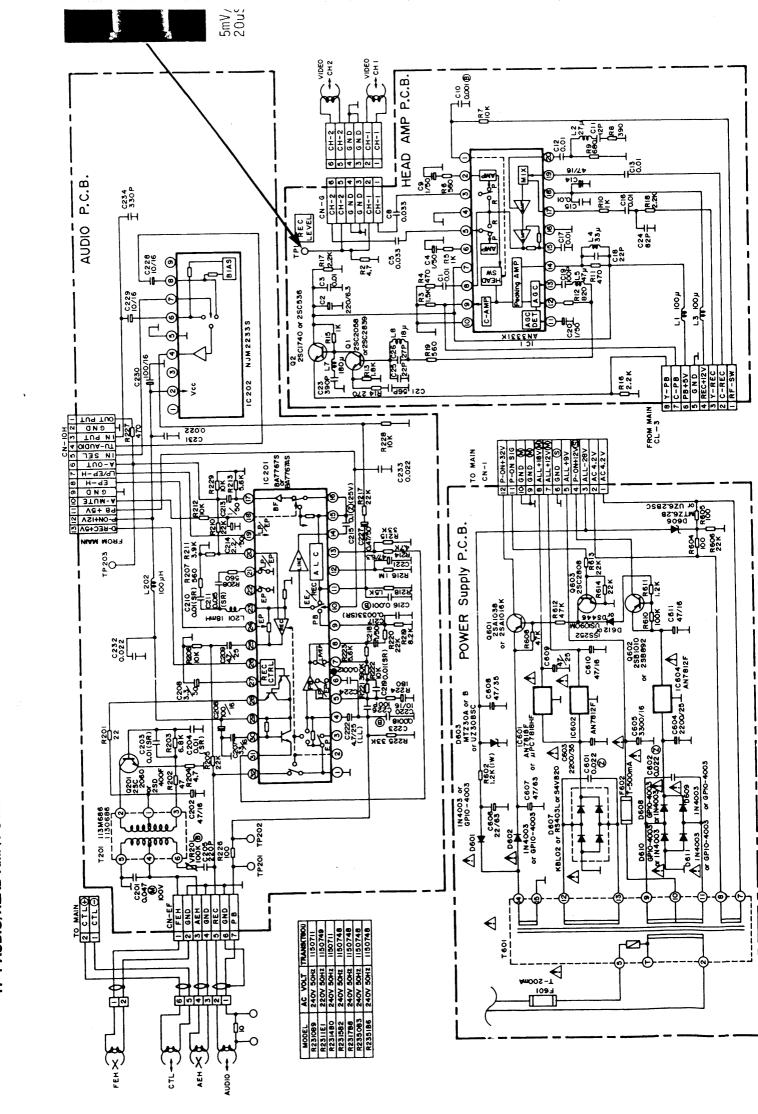
ELECTRICAL PARTS LIST (PLEASE NOTE: ALL NUMBERS WITH PREFIX * REFER TO VCR6100)

Circ. Ref	Description	Part No.
Coils	Description	1 411 140.
L1, 3, 53, 54,	Coil 100uH 2101	150391
57, 202	001112101	150091
L2	Coil 27uH 5270	153019
L4	Coil 33uH 5330	153020
L5	Coil 47uH 5470 Coil 180uH 5181	153021
L7,56 L8	Coil 18uH 5180	153016 153018
L51	Coil 22uH 5220	153013
L52*	Coil 39uH 5390	152051
L52, 55	Coil 82uH 5820	153015
L101	Coil 330uh 2331	151424
L102	Coil 680uH D491	152052
L103 L103*	Coil 68uH 5680 Coil 68uH 5680	153014 153300
L201	Coil 18mH M500	153022
L401, 402	Coil 200uH J441	153017
T51	Eq Coil 1810585	152055
T201	Audio Osc Coil 113M686	152056
Filters		
T51*	Equalizing Coil 0585	l
T52	Filter LPF 3MHz 0805	151748
T101	Filter LPF 1.5MHz D621	153023
T102	Filter BPF 4.43MHz 0804	151788
DL101	Filter Comb 2112	151746
CF101	Filter Ceramic 5.06MHz 0497	150653
X101 X501	X'Tal 4.43MHz 1259 Res Ceramic 3.58MHz 2206	153024 153026
X501*	Res Ceramic 3.56MHz 2206	153026
X751	Res Ceramic 500kHz 1103	153025
X801*	XTal 4.19MHz 1191	153027
X802*	XTal 32kHz 1100	153302
Potentiometer		
VR51, 101	Semi Fix 1kΩ 777	153303
VR201	Semi Fix 100kΩ 956	153304
VR401	Semi Fix 200kΩ Metal 832	153305
VR402	Semi Fix 200kΩ 786	163306
VR801	Potentiometer 250kΩ 661	152069
VR802	Potentiometer 20kΩ 703	152070
Switches		
SW801-827 824	Switch Push 2101	153028
SW824, 831*	Switch Slide 1752	153029
Jacks	<u> </u>	* · · · · · · · · · · · · · · · · · · ·
JK201	Scart Jack 548	153030
	South Back 6 /6	1 , 30000
Miscellaneous	la	l 45000:
RS801	Remote Sensor	153031
FIP801	FIP Holder FIP 16-MT-14GK	153032 153033
Conv-1	RF Conv	153033
BZ801*	Piezo Buzzer PKM22EPP-4001	153307
	RCA Plug Cord	153035
	Cushion	153036
ļ	Shield Plate Top	153037
Teor	Shield Plate Bottom	153038
T601	Power Transformer AC Cord	153039 153040
	Cord Stopper	153040
	Fuse Holder	153042
F601	Fuse T-200mA	153043
F602	Fuse T-500mA	153044
TU701	Tuner IF	153045
	Remote Control Box VCR6000	153046
	Remote Control Box VCR6100 Instruction Book	153308 UI-VCR6000
1	Instruction Book	UI-VCR6100
I		
	RF Cord	153048
TC801		1 ' '
RX501*	RF Cord Trimmer Capacitor 20pF Resistor Network 100kΩ x 8	153048 153309 153310
	RF Cord Trimmer Capacitor 20pF	153048 153309

Ref. No.	Description	Part No.
IC's	•	
IC1	IC AN3331K Head Amp	152034
IC51, 651	IC AN78LO5/NJM78LO5A	190731
	Voltage Regulator	154740
1C52, 652 1C151	IC AN78N05 Voltage Regulator IC BA7021 Video Selector	151710 153001
IC201	IC BA7767S Linear Audio	153003
IC202	IC NJM223S Audio Selector	153004
IC401	IC BA6219B Linear Capstan Drive	150608
IC402	IC MN6748 Servo Control	152047
IC402* IC403*	IC MN6747VBB Servo Control IC MN4066/BU4066 Analog Switch	153289 153290
IC403 IC501	IC MN158461 System Control	152048
IC501*	IC MN18881FVBD System Control	153293
IC502	IC BA6209 Linear Motor Drive	150611
IC502*	IC BA6238A Linear Motor Drive	153291
IC503* IC504	IC MN1280 IC AN6912/LA6339	153292 152399
IC601	IC 7818F Regulator 3 Pin	151416
IC602,.604	IC AN7812F Regulator	151707
IC701	IC LA7913 Tuner Select	152025
IC702	IC L5631 Regulator	152028
IC751	IC LA7210 Tuner Select IC MN1225 Memory	152027 152032
IC752 IC753	IC AN6913	153006
IC801	IC MN15283FVBH	153005
IC801*	IC MN187163FVBC	153295
	Micro Processor	
IC802	IC MN1280R/Q Reset IC Hybrid Y 2119 Luminance	151411 152029
HIC51 HIC101	IC Hybrid C 2421 Colour HIC	152029
HIC401	IC Hybrid Servo 2455	153002
HIC401*	IC Hybrid Servo 2240	153294
Transistors		
Q1	TR 2SC2058QR/2SC2839EF	151417
Q2	TR 2SC1740QR/2SC536SP	50016
Q53, 55, 101,	TR 2SC536SPEF	50016
102, 401, 501	TR 2SA933QR	150874
Q54, 503-505* Q56	TR 2SA1317ST	152037
Q201	TR 2SC2060Q/2SD400F	50002
Q403, 602	TR 2SB892ST	150339
Q502	TR 2SA934QR	151095
Q507, 801	TR 2SC1740QR	50016 153007
Q601 Q603	TR 2SA1016KFG TR 2SC2808RS	153008
Q651	TR 2SD1207ST	152049
Q701	TR 2SD1012FG	152041
Q702, 703	TR 2SK128TAPQ	152040
QR402, 403*,	TRDTC124ES/2SC3400	152050
501, 504, 507*, 508,		
509*, 701*,		
702*	_	
QR404*, 405*	TR DTA114YS	153296
506* QR502, 505	TR DTA143XS	152043
QR503, 701	TR DTA124ES/2SA1346	151422
QR506	TR DTA124XS	153010
QR801	TR DTA124ES	151442
Diodes		
D51,54,101,151,	D 1\$\$254	150624
152, 401-406,		
501-504, 506, 507-500-511		
507,509-511 701, 751, 752,		
754		
D251, 801-816	D US1040M	150624
D508, 606	DZ UZ6.2BSC	153298
D601, 602 D603	D ISR35-200A/1N4003/GP10-4003	152073 152074
D603	DZ MTZ30A D KBL02L/RS403L/S4VB20	152075
D608-611	D IN4003	152073
D612	D ISS252/DS446/US1090M	153011
L	<u> </u>	

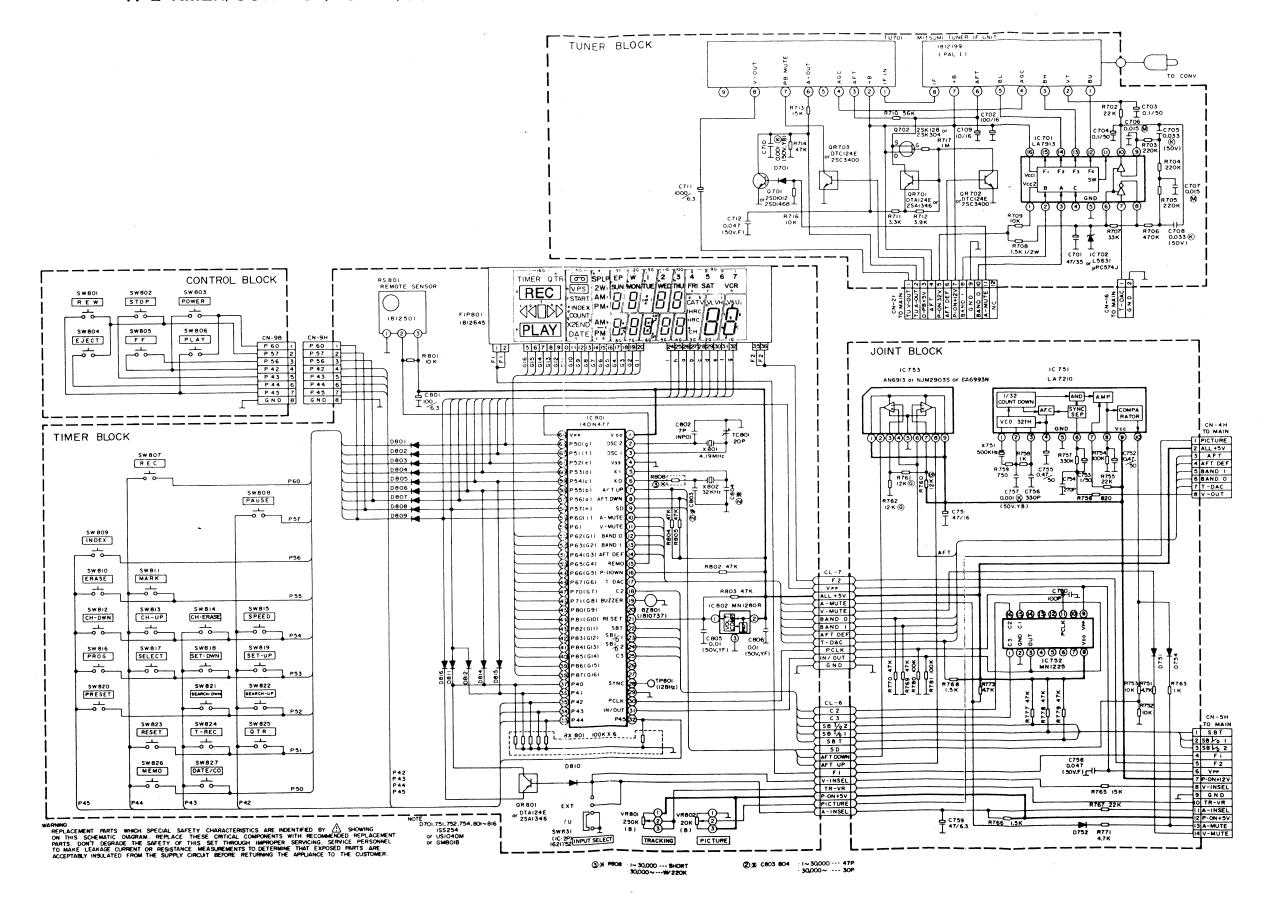
Description	Circuit Reference	Part No.
Resistors (All re-	sistors are 1/5W unless otherwise state	d)
4.7Ω	R2, 204	152146
22Ω	R201	152156
47Ω	R202	152160
68Ω 82Ω	R61 R73, 156	152162 152164
100Ω	R226, 419, 604, 605	152166
150Ω	R431	152168
180Ω	R224, 505*, 512	152169
270Ω	R14, 104	152171
390Ω	R8, 63	152173
470Ω	R4, 11, 227	152174
560Ω 680Ω	R6, 19, 58, 207, 208, 422* R9, 65	152175 152176
750Ω	R759	152177
820Ω	R12, 756	152178
1kΩ	R5, 10, 15, 60, 64, 69, 105, 418,	152179
	440*, 506*, 509*, 512*, 758, 763	
1.2kΩ	R59, 503, 611, 651	152180
1.5kΩ	R3, 67, 218, 253, 411, 434, 708,	152181
4.01.0	766, 768	450400
1.8kΩ 2.2kΩ	R13, 103 R16-18, 68, 106, 252, 255, 414,	152182 152183
2.2K32	416, 422, 802	152163
2.7kΩ	R402, 404, 423*, 514-516	152184
3.3kΩ	R412*, 413*, 517, 711, 804, 805	152185
3.6kΩ	R510, 523*	152186
3.9kΩ	R211, 712	152187
4.7kΩ	R51, 71, 214, 408, 415, 424*,	152188
	501, 532*, 751, 771, 773	1
5.6kΩ	R102, 213, 223	152189
6.8kΩ	R66, 203, 435, 519-521*	152190
7.5kΩ	R407*	152191
8.2kΩ	R219	152192
10kΩ	R7, 154, 206, 212, 222, 228, 229, 407, 414*, 420, 421, 426, 427, 505, 508, 533*, 652, 709, 716,	152194
12kΩ	752, 753, 801*, 807 R231, 437*, 438*, 529*, 530*, 760-762	152195
13kΩ	R432	
15kΩ	R713, 765	152196
18kΩ	R57	152197
22kΩ	R205, 210, 217, 220, 252, 255, 606, 613, 614, 702, 755, 767	152198
33kΩ	R215, 225, 430, 707, 803	152200
39kΩ	R403, 405	152201
47kΩ	R72, 412, 428, 433, 436*, 439*,	152203
ŀ	504, 507*,508*, 509, 511, 513-	1
	516*, 522*, 524*, 527*, 529*,	
	534*, 608, 612, 714, 769, 770,	
ECLO.	777-779, 801, 802-805*	150004
56kΩ 82kΩ	R70, 710 R502	152204 152207
100kΩ	R155, 531*, 610, 754, 780, 781	152207
220kΩ	R525*, 526*, 703-705, 808*	152209
330kΩ	R757	152215
390kΩ	R221	152216
470kΩ	R413, 506, 507, 706	152217
1ΜΩ	R216, 717	152223
Oxide Film Res	istors	
1.5Ω/1W	l R429	150903
3.3Ω/1W	R513, 518*	151608
3.3Ω/2W	R401	153315
330Ω/1W	R62	151593
1.2kΩ	R602	153316
Polyester Film Capacitors		
0.015uF/50V	C706, 707	152389
0.033uF/50V	C424	151600
	C201	152089
0.047uF/50V	0201	102003

Description	Circuit Reference	Part No.
Ceramic Capacit	tors	
7pF	C802	153317
10pF	C62, 801	150873
12pF	C11	150873
22pF	C18, 25	150511
27pF	C26	150513
30pF	C803, 804	153318 24029
33pF	C59 C21	810311
56pF 68pF	C63	150516
82pF	C24	150517
100pF	C19, 226, 760*	24016
120pF	C60	150482
150pF	C64	151304
220pF	C66, 71, 105, 155*, 205	400107
270pF	C104, 754	150491
330pF	C234*, 756	150518
390pF	C23	153320
1000pF	C10	151645
0.001uF	C216, 710, 757	150518
0.0012uF	C224	153321
0.0018uF	C223	153322
0.0022uF	C434*	152644
0.0039uF	C252	153323
0.0082uF	C432*	153324
0.01uF	C1, 3, 12, 13, 15-17, 101, 102,	810312
0.0005	231, 805, 806	21027
0.022uF	C67, 109*, 152, 231-233, 601, 602, 758, 802, 803	21027
0.000E		153325
0.033uF 0.047uF	C5, 8 C712*, 758*	152645
0.047ur 0.056uF	C433*	153326
		100020
Semi-Conductive	e Capacitors	
0.0033uF/25V	C217	151581
0.0047uF/25V	C425, 426	151582
0.01uF/25V	C203, 204, 210, 219, 421, 431*,	152084
	501*	
0.015uF/25V	C211	153327
0.022uF/25V	C409	151585
0.033uF/25V	C409*	151586
0.033uF/50V	C705, 708	152086
0.047uF/16V	C68*, 106, 107*, 412	152087
0.047uF/25V	C415, 430*	151311
0.1uF/12V 0.1uF/25V	C215, 423, 427 C401, 403-405, 505, 506, 507*	152646 1508 8 7
		150007
Electrolytic Cap	actions	
0.1uF/50V	C703, 704	150908
0.22uF/50V	C153, 406	152546
0.47uF/50V	C227, 752, 755	151641
1uF/50V	C4, 9, 20, 213, 218, 408, 411,	20062
l ·	414, 652, 654, 753	
1uF/50V NPO	C410, 417*, 429*	153328
2.2uF/50V	C214, 503	151598
2.2uF/50V NPO	C417	152079
3.3uF/50V	C208	152080
4.7uF/25V 4.7uF/25V (AXI)	C209, 419* C222	20065 153329
4.7uF/25V (AXI) 4.7uF/25V NPO	C503	153329
8.2uF/16V	C418	153330
10uF/16V	C53, 54, 57, 151, 154, 220, 228,	20148
.00.7.00	229, 416, 420, 651, 653, 709	-5.35
10uF/16V NPO	C58	20037
22uF/16V	C65, 606	151308
33uF/16V	C207	20026
47uF/6.3V	C221, 419, 759	151327
47uF/10V/16V	C422	20027
47uF/16V	C14, 51, 52, 202, 610, 611, 751	20027
47uF/25V	C609*	151640
47uF/35V	C608, 701	152081
47uF/63V	C607*	152096
100uF/6.3V	C801*, 804	153297
100uF/16V	C56, 206, 230, 504, 702	20028
100uF/25V	C402*	20028
220uF/6.3V	C2, 61, 108	151309
330uF/6.3V	C69, 70	152082
470uF/16V	C428*	1400248
1000uF/6.3V	C55, 711	20118
2200uF/25V 2200uF/35V	C604*	152097
3300uF/16V	C605*	152097



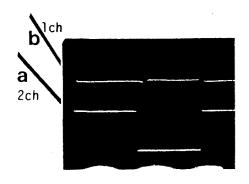
17-2 TIMER/CONTROL/TUNER/JOINT VCR6000 TUNER BLOCK A-OUT AFT DEF AGC AFT Off 702 OTC124E or 2503400 25002 D701 25002 I55224 20469 H 3 W 80 1 EJECT SW 807 3 W 805 SW 808 JOINT BLOCK ICTSI (SYNC SEPARATE IC) LATZIO V-MUTE X801 | X801 | ()| | 4,19 MHZ ALL + 5V TIMER BLOCK REMOTE SYNC SEP PAUSE 47K K 802 RESET I R807 IOK C 804 I 100/63 \$9 : 28.4 \$9 : 28.4 \$7 : 28.4 \$6 : 28.4 5 W 809 SW827 SPEED 1 (8) 28.4 0 39.16.8 1 39.16.8 1 39.26.9 1 30.26.2 SW BII 3 W 810 SW 813 SW 812 R802 | 50 | 0801 | 2 5c1740 | 2 5c1740 | 2 5c276 | 2 5c276 | 2 5c77 | 35 K SW 815 SW 814 5 W 8 16 R761 R760 12K © 12K © R761 12 K © 1762 12 K ⑦ 10047 C-RESET SW 020 PRESET R804 3.3 K 30 21 P 20 30 22 P 21 5023 P22 SW 8 2 I SW 822 SEARCH-SW823 ERASE DB10 DB10 3.0 10 8 P. DOWN VPRS 20.7 1 155254X7 E 0 E 0 E REC R 752 Replacement parts which special safety characteristics are identified by showing on this schematic diagram, Replace these critical components with recommended implacement parts. Don't degrade the safety of this set through improper servicing. Service personnel to make leakage current or resistance measurement to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer. SW824 EXT 4 F 4 3 TR VR 3 2 PICTURE 2 1 A - INSEL 1 7 V - INSEL 9 0 N D 9 TR VR 10 A - INSET 11 P - ON + 5V 12 A - MUTE 13 V - MUTE NOTE All voltages are DC measured with a SSVM (of record mode) C 7 59 R 768 L5K D 752 R771 All of Diodes us 1040 M or 155254 or GMBOIB

17-2 TIMER/CONTROL/TUNER/JOINT VCR6100



WAVE FORMS

THIS INFORMATION REFERS TO VCR6100 VIDEO/SERVO/SYSTEM CONTROL SCHEMATIC DIAGRAM. ILLUSTRATED ON PAGE 120.



1ch (CTL) 0.2v/div.

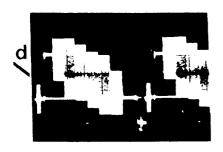
2ch (RF SW) 0.2v/div. 5ms/div.

PLAY MODE



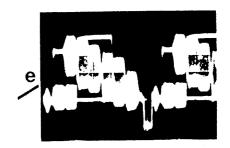
10mV/div. 10uS/div.

REC MODE



10uS/div. 20uV/div.

E-E MODE



10uS/div. 20mV/div.

PLAY MODE

WARNING

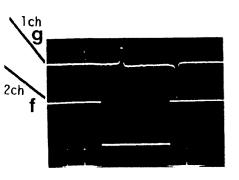
REPLACEMENT PARTS WHICH HAVE SPECIAL SAFETY CHARACTERISTICS ARE IDENTIFIED BY \(\frac{1}{2} \) SHOWING ON THIS SCHEMATIC DIAGRAM, REPLACE THESE CRITICAL COMPONENTS WITH RECOMMENDED REPLACEMENT PARTS, DON'T DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING, SERVICE PERSONNEL SHOULD MAKE LEAKAGE. CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

NOTES

- 1. ALL RESISTANCE VALUES ARE INDICAT
- 2. ALL CAPACITANCE VALUES ARE INDICA
- 3. VOLTAGES ARE MEASURED WITH SSV CATED TO CHASSIS GROUND AT NO S NOTED. (SEE VOLTAGE CHART.)
- CAPACITOR TYPES ARE (PL) = POLY.
 M) = MYLAR, OTHERS ARE CERAMIC.

WAVE FORMS

THIS INFORMATION REFERS TO VCR6000 VIDEO/SERVO/SYSTEM CONTROL SCHEMATIC DIAGRAM. **ILLUSTRATED ON PAGE 119.**



1ch (CTL) 0.1mV/div. 5mS/div.

PLAY MODE

2ch (RF SW) 0.2mV/div.

5mS/div.

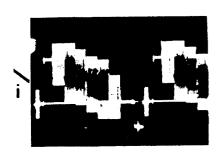
PLAY MODE



10mV/div.

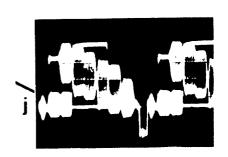
10uS/div.

REC MODE



10uS/div. 20uV/div.

E-E MODE



10uS/div. 20mV/div.

PLAY MODE

ID IN OHM (K = 103, M=106). TED IN μ F (P = 10 $^{-6}\mu$ F). 1 (Z: > 10K OHM) FRONT POINT INDI-GNAL CONDITION UNLESS OTHERWISE

ROPYLANE, (SC) = SEMI-CONDUCTIVE,

NOTE: All voltages are DC measured with a SSVM. The DC voltage measured at E-E mode.

> (:::::

: at record mode.) : at playback mode.) : Fusing resistor



: Safety material

